



Hydrological data UK



1982 YEARBOOK

INSTITUTE OF HYDROLOGY • BRITISH GEOLOGICAL SURVEY

**HYDROLOGICAL DATA
UNITED KINGDOM**

1982

YEARBOOK

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**1982
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An account of
rainfall, river flows and groundwater levels
January to December 1982

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A note for buyers of the looseleaf version:

So that this Yearbook can stand alone as a separate volume, it has been necessary to repeat much of the background information which has already appeared in the 1981 volume. Readers may wish to save space in the binder by discarding some of the repeated pages e.g. 121 to 142. Future editions will be planned to make this a simpler operation.

Cover:

Demonstrating the measurement of discharge by the moving boat method on the River Exe during the IAHS Assembly at Exeter, July 1982.

Photograph: M. Lowing

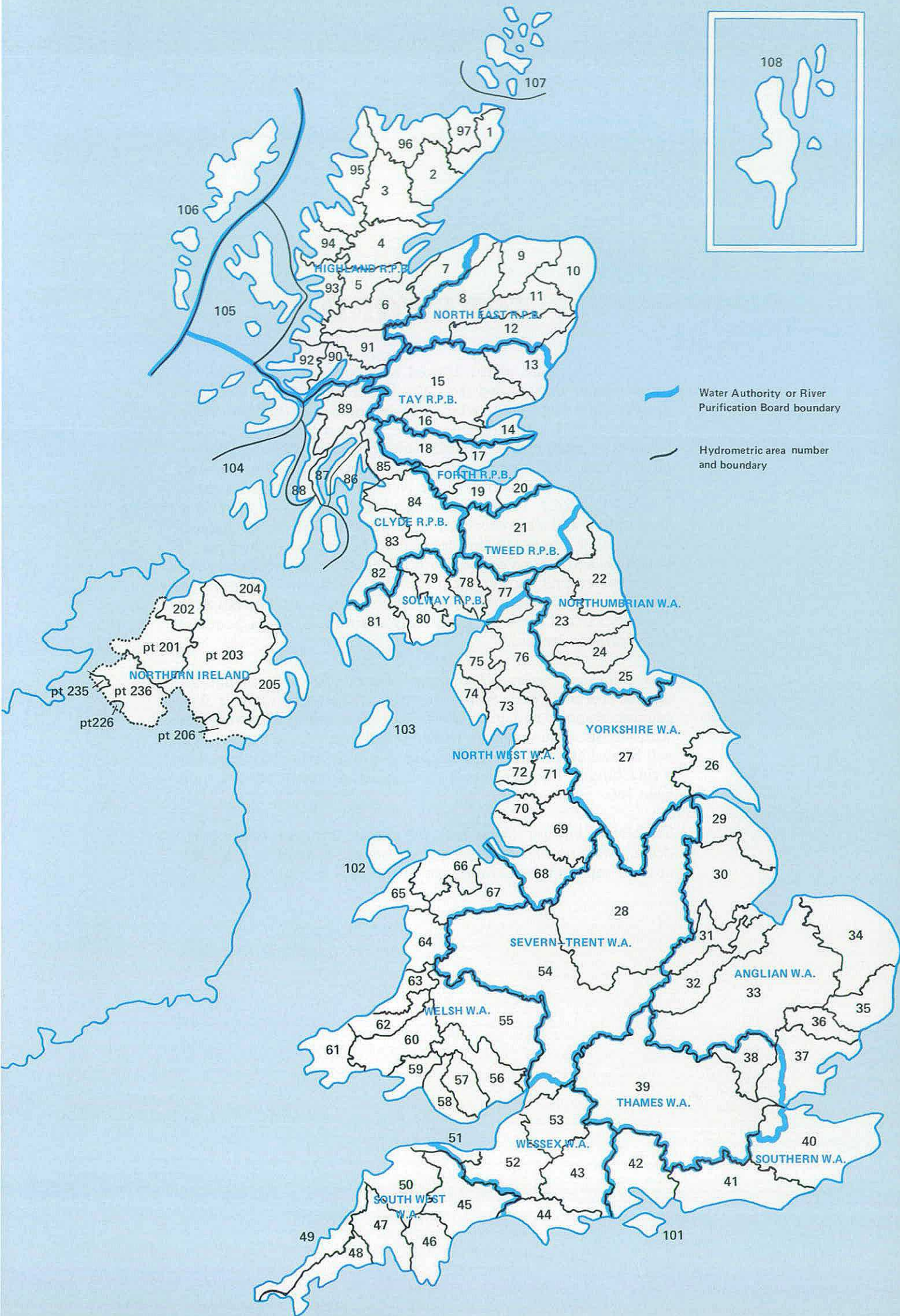
FOREWORD

In April 1982, care of the United Kingdom national archive of surface water data passed from the Department of the Environment's Water Data Unit (which was disbanded) to the Institute of Hydrology (IH). In a similar move, the Institute of Geological Sciences, subsequently renamed the British Geological Survey (BGS), took over the national groundwater archive. Both IH and BGS are component bodies of the Natural Environment Research Council (NERC). The BGS hydrogeologists are located with IH at Wallingford and close cooperation between the two groups has led, among other things, to the decision to publish a single series of yearbooks and reports dealing with nationally archived surface and groundwater data and the use made of them. The work is overseen by a steering committee with representatives of Government departments and the water industry from England, Wales, Scotland and Northern Ireland.

The published series - *Hydrological Data: UK* - will include an annual yearbook and, every five years, a catalogue of river flow gauging stations and groundwater level recording sites together with statistical summaries. These six volumes of the 5-year cycle will be available individually but are also designed to be inserted in a ring binder. Further details of these arrangements are given on page 166.

The series - but not the binder - will also include occasional reports dealing with significant hydrological events and analyses. The first of these reports provides a review of the 1984 drought.

J.S.G. McCulloch
Director, Institute of Hydrology



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INTRODUCTION

This volume is the second Yearbook published in the Hydrological Data: United Kingdom series.

Apart from summary information, surface water and groundwater data on a national basis were published separately prior to the introduction of the Hydrological Data: United Kingdom series. The 1982 Yearbook brings together the principal data sets relating to river flow, groundwater levels and rainfall throughout the United Kingdom. A description is also given of the surface water and groundwater archives together with the data retrieval facilities which complement this volume.

Publication of river flow data for Great Britain started with the series of Surface Water Yearbooks. The first edition, which was published in 1938 for the water year (October-September) 1935-36 also included selected data for the previous fifteen years; the edition for 1936-1937 followed in 1939. Both these publications were prepared under the direction of the Inland Water Survey Committee, the fiftieth anniversary of whose founding falls in 1985. Assisted by the Scottish Office, the Committee continued to publish hydrological data after the war; the Yearbook for the period 1937-1945 being published as a single volume in 1952.

Due to economic stringency, the Survey was suspended in 1952 for a period of two years but was then reformed as the Surface Water Survey Centre of Great Britain. A Yearbook covering the years 1945-1953 was published in 1955.

In 1964 the Survey was transferred to the Water Resources Board where it remained until 1974 when the work of collection and publishing surface water information in England and Wales was again transferred, this time to the Water Data Unit of the Department of the Environment.

Yearbooks were published jointly each year by these organisations and the Scottish Office for the water years 1953-54 to 1965-1966, but thereafter information for the five calendar years 1966 to 1970 was published in one volume in 1974. Following editions were renamed 'Surface Water: United Kingdom' to mark the inclusion of the first records from Northern Ireland and in recognition of the move away from single year volumes. Two volumes of Surface Water: United Kingdom, covering the years 1971-73 and 1974-76 were published jointly by the Water Data Unit, the Scottish Development Department and the Department of the Environment for Northern Ireland.

Following the transfer of the surface water archive to the Natural Environment Research Council in 1982, the final edition of Surface Water: United Kingdom, for the years 1977-80, was prepared by the Institute of Hydrology at the request of the Water Directorate of the Department of the Environment, and published in 1983.

The 1981 and 1982 Yearbooks were prepared concurrently and are the first Yearbooks published by the Natural Environment Research Council. This volume represents the twenty-third edition in the series of surface water publications which began with the 1935-36 Surface Water Yearbook. As a result of the incorporation of groundwater data in the Yearbook, this volume is also the seventh edition in the series of groundwater data publications which began with the 1964-66 Groundwater Yearbook.

A compilation of "Groundwater levels in England during 1963" which was produced by the Geological Survey of Great Britain prior to its incorporation into the Institute of Geological Sciences, was the precursor to the publication of groundwater level data on a national basis. The more formal Groundwater Yearbook series was instigated by the Water Resources Board which published the inaugural edition, and a further volume for 1967, both covering England and Wales. In 1975 a third Yearbook, for 1968-70, was published by the Water Data Unit. The Groundwater: United Kingdom series was introduced in 1978 with the production of the 1971-73 volume, also published by the Water Data Unit.

Following the transfer of the groundwater archive to the Institute of Geological Sciences, the second edition of Groundwater: United Kingdom, covering the period 1974-80, was prepared by the Institute of Hydrology at the request of the Water Directorate of the Department of the Environment.

The 1982 Yearbook may be seen as part of the United Kingdom's contribution to UNESCO's International Hydrological Programme in continuing the exchange of hydrological information begun in 1965 for the International Hydrological Decade.

The Natural Environment Research Council acknowledge and extend their appreciation to all who have assisted in the collection of information for this publication.

SCOPE AND SOURCES OF INFORMATION

The format of the yearbooks in the *Hydrological Data: United Kingdom* series differs substantially from that of previous yearbooks. A greater variety of hydrological information is provided and emphasis is placed upon ready access to basic data both within the yearbook and through the complementary data retrieval facilities.

The contents have been abstracted primarily from the surface water and groundwater archives. Responsibility for the collection and initial processing of the data rests mainly with the ten Water Authorities in England and Wales, the seven River Purification Boards in Scotland and the Department of the Environment (NI) in Northern Ireland. Additional material has been provided by the Greater London Council, the Department of Agriculture in Northern Ireland and by research bodies and public undertakings. The majority of

the rainfall data, and much of the material incorporated in the review of the weather, has been provided by the Meteorological Office.

Some slight variations from the contributors' figures may occur; these may be due to different methods of computation or to the need for uniformity in presentation.

The practice, followed in previous yearbooks, of publishing river water temperature data has been discontinued. Monitoring of water quality, including temperature, is the responsibility of water authorities and river purification boards. Some temperature data are held by the Department of the Environment in association with the Harmonised Monitoring Scheme (contact WQ5, Room A4.26, Romney House, 43 Marsham Street, London, SW1P 3PY, tel. 01-212-6902).

REVIEW OF THE WEATHER – IN RELATION TO WATER RESOURCES

1982 was the sixth wettest year this century in the United Kingdom and the fourth consecutive year in which rainfall exceeded the 1941–70 average. Isolated areas in central and southern Scotland received over 140 per cent of mean annual rainfall whilst extensive areas mainly in the east of the United Kingdom received below average rainfall (Fig.1). Figure 2 shows the spatial distribution of 1982 rainfall in millimetres. The seasonal distribution was beneficial for water resources and the 1981/82 winter half year (October – March) rainfall for the United Kingdom was significantly above average. Even in the east, the winter rainfall was close to normal and infiltration to the major aquifers was sufficient to provide a reassuring water supply outlook for the summer. Of the water authorities largely reliant on groundwater for water supply, only Southern recorded below average winter rainfall. Towards the end of 1982, rainfall was again plentiful and allowed many of the major reservoirs to be refilled by November. Table 1 provides a breakdown of monthly rainfall in 1982 both on a countrywide basis and according to the major administrative divisions within the water industry (see frontispiece); the erratic pattern throughout the year and the very high rainfall in March and June are noteworthy. On a regional scale some areas had slightly less than normal rainfall during the spring and summer but, generally, these deficiencies did not persist for long enough to cause significant water management problems. Annual potential evaporation was, on the whole above average; only Milford Haven, in south west Wales, recorded less than 94% of the 1956–76 average (Fig.3). The highest potential evaporation as a percentage of the average was recorded in the far north of Scotland.

The winter of 1981/82 (December – February) was wetter than normal over the United Kingdom as a whole. England and Wales however, was significantly drier over the same period; rainfall was only 87 per cent of the 1941–70 average. January was generally wet in the north but less than half the average rainfall was recorded in north Wales, southern England, East Anglia and Yorkshire. A notable cold spell, continuing from December 1981, came to a rapid end as fronts moved north east across the country bringing heavy rain. This, and a rapid melting of the lying snow caused severe flooding in many parts of the west and north of England; the vale of York particularly suffered widespread inundation. Snow equivalent to between 30 mm and 100 mm of water accumulated over the period 13 December 1981 to 6 January 1982 in the Don, Aire and Ouse catchments.

A rapid rise in temperature, combined with rainfall exceeding 150 mm on the Pennines over the period 1st – 6th January caused the severest floods since 1947.

The second week of January witnessed a return to exceptionally severe wintry weather with widespread, heavy accumulations of snow. In south Wales, more than 600 mm depth of snow was recorded in places and some areas were isolated for several days. For its duration, the cold spell was probably the severest this century. Further problems of flooding were however limited by the steadiness of the subsequent thaw. February continued unsettled and wet in the west but dry in the east. Durham barely recorded 10 mm of rainfall for the entire month and much of eastern England experienced a dry spell of six or seven weeks from mid January.

At the beginning of 1982 soils in most areas of the United Kingdom were at field capacity. However, east of a line from Humberside to Kent deficits generally ranged from between 10 and 50 mm. Soil moisture conditions remained stable throughout January and February with the deficits in eastern England continuing well above average.

For the seventh consecutive year in Scotland and Northern Ireland, and the sixth consecutive year in England and Wales, March rainfall was above average. Most areas recorded more than 150 per cent of average rainfall with more than twice the normal precipitation in parts of southern England and western districts of Northern Ireland. The most notable daily rainfall events were on the 9th in the Lake District when Honister Pass recorded over 130 mm and, on the 14th when more than 50 mm fell over the hills of north Wales and northern England. Heavy rain caused flooding in Angus and Dumfriesshire on the 12th, the Thames Valley on the 15th, and in York on the 16th. A dry spell commenced in the third week of the month which, apart from temporary breaks, lasted until early June. As in 1980, April was exceptionally dry with all areas, apart from the far north of Scotland, recording less than half of normal rainfall. Northern Ireland was even drier; the April rainfall total of 24 mm was the fourth lowest in the Province this century. Many districts especially in Devon and Cornwall had 22 consecutive days without measurable rainfall. Margate, in Kent, recorded a month's total of only 2.5 mm making it the driest April since records began there in 1905. Similarly, Askham Bryan (North Yorkshire) and Armagh (Northern Ireland) recorded their lowest rainfall totals for April since 1938. The counterbalancing effect of a very wet March and the limited rainfall in

February and April resulted in spring rainfall for the United Kingdom being very close to the 1941–70 mean. Rainfall in May was, again, below average over much of the United Kingdom. A belt covering south west England and south Wales across the Midlands to parts of northern England, recorded less than half the average May rainfall. Some districts in south east England, Scotland and Northern Ireland did, however, record 150% of average rainfall.

In early spring significant departures from the normal pattern of steadily increasing evaporation rates could be recognised. Station values of potential evaporation were near to, or slightly below, the March average in western Scotland. Elsewhere, they were above normal and potential evaporation was between 20 and 50 per cent greater than normal throughout much of the south and east of England during March and April.

Soil moisture deficits decreased rapidly during the first half of March in those parts of eastern England where deficits had remained through the winter, to reach a minimum during early to mid March. By the end of the month deficits ranged from well above average in parts of eastern England to near average in other eastern and central districts of England. Several places in eastern England had their highest end of March values since 1976. With below average April rainfall, deficits increased throughout the month so that by the end of April they were well above average over most of the United Kingdom. North west Scotland was an exception to this general pattern; rainfall was closer to the average and, correspondingly, the soil moisture deficits were well within the normal range. A month later, deficits over Scotland had changed very little from the end of April values and in some southern and eastern areas they had even decreased. Over the rest of Scotland, they were near to, or slightly above, average. Over the remainder of the United Kingdom deficits generally increased so that by the end of the month they were still above, or well above, the end of May average. A few localities in eastern England again recorded their highest values since 1976.

The summer (June – August) was characterised by marked contrasts in monthly rainfall totals and considerable spatial variation, particularly in June (Fig.4). Scotland experienced a relatively dry summer with a countrywide rainfall value of only 86 per cent of the 1941–70 average. Central and northern Scotland were particularly dry in June, the rainfall total for the Shetlands was the lowest for more than 100 years. Conversely, England and Wales experienced its wettest June since 1879 and Northern Ireland its sixth wettest June since records began in 1900. Twice the average rainfall occurred over much of England, parts of Wales, southern Scotland and Northern Ireland and over four times the average in south and west Yorkshire.

In central and eastern England June 1982 was probably the most thundery month this century. Convective storms caused severe localised flooding in many places. Badly affected areas included Loughton in Lincolnshire where 79 mm fell on the 10th June, and Bristol where, on the 18th an intense storm resulted in an accumulation of hail up to 100 mm deep. On the 26th, one of three vigorous thunderstorm cells behind a frontal system centred on the Silk Stream in north-west London. The torrential rain reached a maximum intensity of 24 mm/hr (between 10.15 and 10.30 hr) and produced an estimated storm total of 54 mm.

In marked contrast to June, most areas in the United Kingdom were extremely dry in July. Some areas, notably the English midlands and Norfolk, had less than 10 per cent of average rainfall. Northern Ireland recorded its driest July since 1900 and Londonderry had its lowest monthly total since records began in 1878. Dorset, Somerset and Devon, however, all recorded above 150 per cent of average rainfall mostly attributable to heavy storms on the 11th and 12th centred near Chulmleigh (north Devon) and Gillingham (north Dorset). Rainfall at both storm centres exceeded a return period of 100 years and, locally, exceeded 1000 years in the Chulmleigh area where extensive soil erosion occurred.

Although United Kingdom rainfall for August was slightly above average there was considerable regional variation. Less than half the average was recorded in south eastern parts of Scotland and locally in southern England. In contrast, more than 200 per cent of average fell in Cambridgeshire, Lincolnshire and the far north of Scotland. There were numerous reports of rainfall being particularly heavy between the 4th and 6th August with some flooding in places; 124 mm fell at Ely in Cambridgeshire on the 4th with an estimated return period of 1550 years for the rainfall-day total. This event is categorised as 'very rare' under the Meteorological Office's 'Bilham' classification of heavy falls; a list of the 'very rare' rainfall totals for 1982 is given in Table 2.

Potential evaporation rates throughout Scotland remained close to, or a little above, the average throughout the summer. In England and Wales conditions favoured relatively low potential evaporation initially but by August rates had increased appreciably and were generally above average, especially in East Anglia.

Soil moisture deficits increased steadily during June in the northern half of Scotland whilst central and eastern areas of England, and all upland areas of England and Wales, showed quite large decreases; 40–50 mm in some places. Elsewhere deficits remained relatively stable throughout the month. The normal pattern of increasing summer deficits was re-established in most regions during

July and near average conditions prevailed throughout most of the United Kingdom by the end of the month. Northern Scotland was an exception; some districts recorded their highest July deficits since the current method of soil moisture deficit estimation was established. During August, deficits in east and central England showed little change but decreased significantly in other parts of the United Kingdom. Many upland areas, and western Scotland, had returned to field capacity before the end of the month.

Sustained and heavy rainfall was a feature of the United Kingdom's rainfall pattern in the latter half of 1982. As a result, the periods August to December and September to December were the wettest such periods on record in Scotland. Over England and Wales the three months from October were the wettest since 1960 and the fourth wettest since 1766.

September rainfall followed the pattern of the previous month with Scotland recording above average and all other areas near to, or below, average rainfall. There was, again, wide geographical variation in rainfall distribution. The first three weeks of September were generally dry although, the period 3rd – 7th was very wet in Scotland as was the 5th in East Anglia. During the last week of September the weather became unsettled and on the 27th a storm of about 7 hours duration produced 104 mm rain on the Isle of Man. This storm had an estimated return period of 480 years. Total United Kingdom rainfall in October was well above average, with south east and eastern England, and other more localised areas around the United Kingdom, recording more than twice the normal rainfall. Tayside region, locally, recorded four times the average rainfall and the Grampian region experienced the wettest October since records began in 1856. Flooding was reported from Gateshead on the 11th, Bournemouth on the 14th, and Dumfries on the 18th. November was dominated

by a south westerly airstream and was another wetter than average month except along the eastern seaboard.

During early Autumn the west and south of the United Kingdom recorded near, or below, average potential evaporation. All other areas experienced above average values with typically 40% more than normal in north east England and central and eastern Scotland. Scotland maintained its higher than average values throughout October but potential evaporation rates were below normal for the rest of the United Kingdom.

Maximum soil moisture deficits were reached in mid-September over central and eastern England (Fig.5) but these had substantially decreased by the month end. Wales, south west and north west England, most of Scotland and Northern Ireland, all reached field capacity by the end of the month. Deficits in central and eastern England and the coastal strip of eastern Scotland were greater than average. All other areas had near or below average values. Those areas with deficits at the end of September experienced a steady increase in soil moisture throughout October until field capacity was reached. By the end of November, the only regions with deficits remaining were parts of Cheshire and south Lancashire and much of the eastern half of England.

Rainfall was above average throughout the United Kingdom in December, except in some parts of eastern Great Britain protected by high ground from the predominant south-westerly winds. Flooding occurred on the 18th and 19th December in south west Scotland and the Lake District where the 24 hour rainfall totals on the 18th exceeded 85 mm at Coniston. Soil moisture deficits still apparent at the end of November continued to decrease so that at the year end the only areas with deficits (and then, only for long rooted vegetation) were the eastern coastal counties of England.

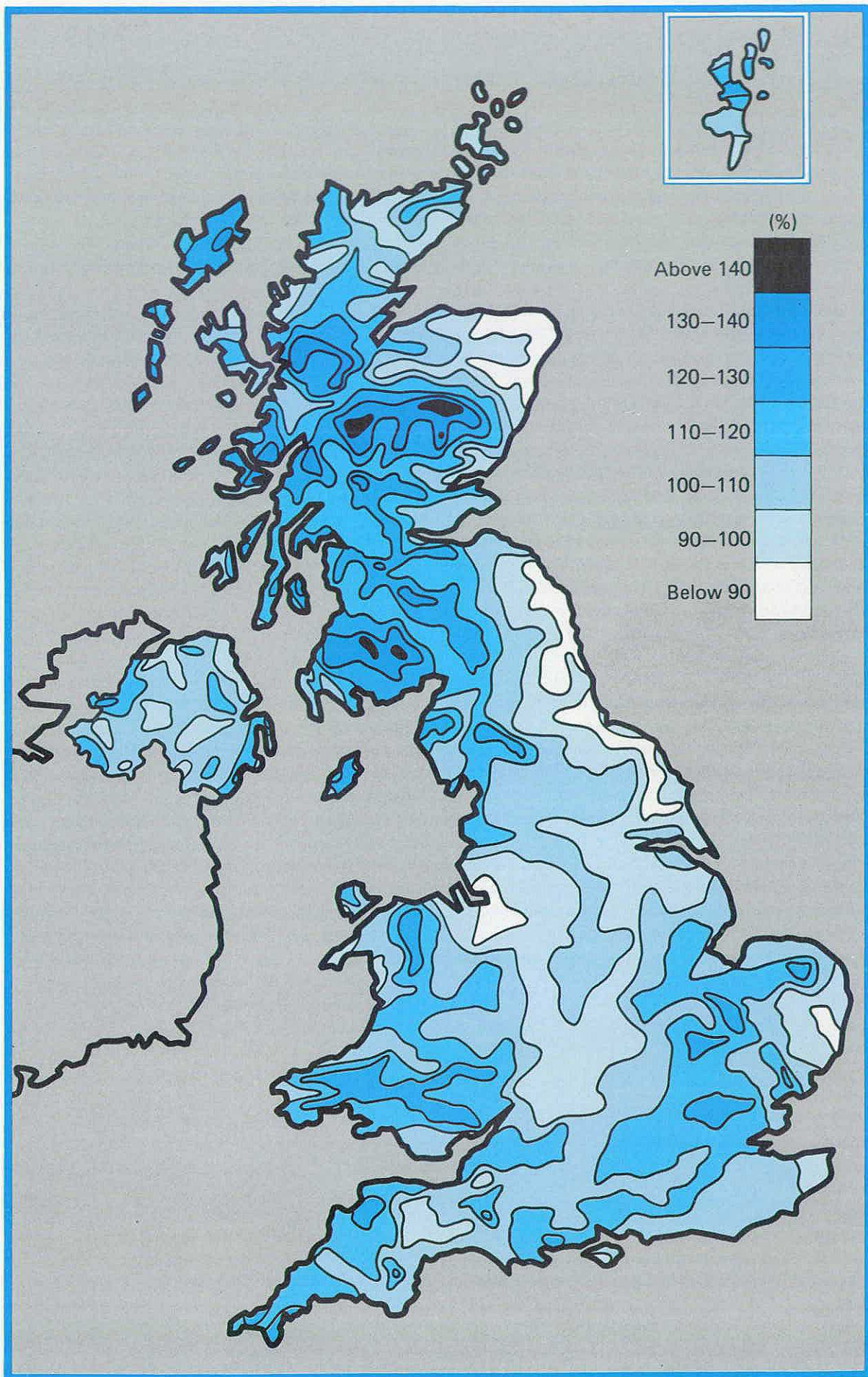


Figure 1. 1982 Annual rainfall as a percentage of the 1941-70 average.

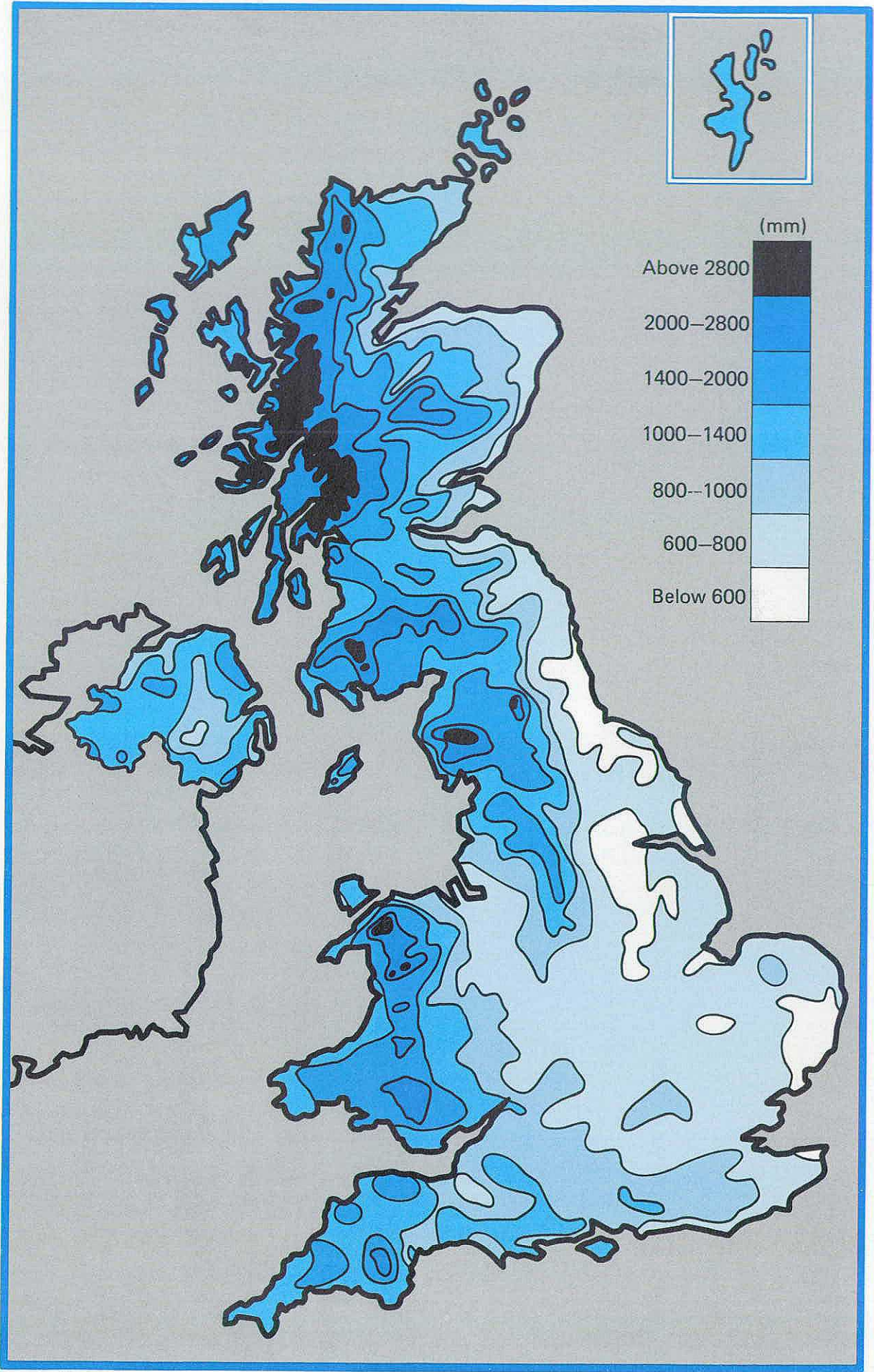


Figure 2. Annual rainfall in 1982.

TABLE 1 1982 RAINFALL IN MM AND AS A PERCENTAGE OF THE 1941-70 AVERAGE

		J	F	M	A	M	J	J	A	S	O	N	D	YEAR
United Kingdom	mm	100	66	119	30	62	110	44	112	119	148	161	139	1210
	%	97	85	170	43	83	151	51	109	117	140	145	123	111
England & Wales	mm	72	44	101	23	46	129	39	90	78	125	126	100	973
	%	84	68	171	40	69	211	53	100	94	151	130	111	107
Scotland	mm	154	107	153	46	92	72	57	156	200	196	229	213	1675
	%	112	103	166	51	101	78	51	121	146	131	161	137	117
Northern Ireland	mm	107	90	112	24	65	123	21	92	99	126	167	139	1165
	%	103	120	160	35	89	156	23	89	93	118	164	122	106
North West W.A.	mm	129	75	131	26	59	120	41	146	97	128	183	164	1299
	%	115	93	182	34	72	145	40	117	79	109	151	137	107
Northumbrian W.A.	mm	106	31	63	16	43	101	41	74	60	101	102	91	829
	%	133	47	121	29	67	166	53	73	76	135	109	121	94
Severn Trent W.A.	mm	62	33	93	27	29	130	30	85	75	65	89	73	791
	%	90	62	179	52	45	232	46	105	112	100	113	104	102
Yorkshire W.A.	mm	64	26	94	16	31	161	21	91	59	72	116	87	838
	%	83	41	177	29	51	278	30	101	82	104	130	118	101
Anglian W.A.	mm	37	20	62	13	50	111	20	59	50	105	68	49	644
	%	71	48	155	33	106	227	35	92	96	202	110	93	106
Thames W.A.	mm	47	35	79	23	49	94	34	48	62	123	93	76	763
	%	76	75	172	50	87	181	57	69	100	192	127	115	108
Southern W.A.	mm	46	39	75	17	45	76	27	59	69	172	114	99	838
	%	61	68	144	35	82	152	46	81	97	221	121	122	105
Wessex W.A.	mm	57	55	117	24	33	108	59	63	69	121	134	105	945
	%	68	93	202	44	49	200	95	77	87	148	138	117	109
South West W.A.	mm	102	97	154	27	41	126	53	84	90	168	194	171	1307
	%	79	108	183	38	49	194	63	83	87	149	145	127	109
Welsh W.A.	mm	137	96	159	36	43	128	43	125	151	164	215	182	1479
	%	101	100	183	42	47	156	45	105	121	127	150	125	111
Highland R.P.B.	mm	168	138	189	65	119	31	63	201	247	169	282	263	1935
	%	102	104	166	57	115	28	50	136	156	91	167	134	112
North East R.P.B.	mm	99	44	92	39	69	32	39	124	125	191	118	108	1080
	%	109	59	148	64	90	46	42	116	144	197	115	106	106
Tay R.P.B.	mm	115	113	145	35	66	45	36	134	193	239	195	173	1489
	%	97	123	177	47	69	54	35	114	168	196	164	129	119
Forth R.P.B.	mm	112	83	125	34	71	82	36	103	151	147	167	154	1265
	%	113	108	181	50	85	109	37	89	140	139	155	141	113
Clyde R.P.B.	mm	189	147	186	46	99	88	48	184	247	203	278	256	1971
	%	117	130	177	45	102	85	37	130	141	111	167	138	118
Tweed R.P.B.	mm	122	76	87	19	63	101	58	65	101	143	139	124	1098
	%	131	110	150	31	83	149	65	57	109	163	134	138	109
Solway R.P.B.	mm	183	143	157	33	81	100	54	120	168	236	250	228	1753
	%	131	154	173	37	88	111	49	92	111	164	172	151	123
Western Isles, Orkney & Shetland	mm	129	101	149	50	95	14	56	157	205	136	206	169	1467
	%	95	98	162	60	140	18	67	167	163	94	150	110	113

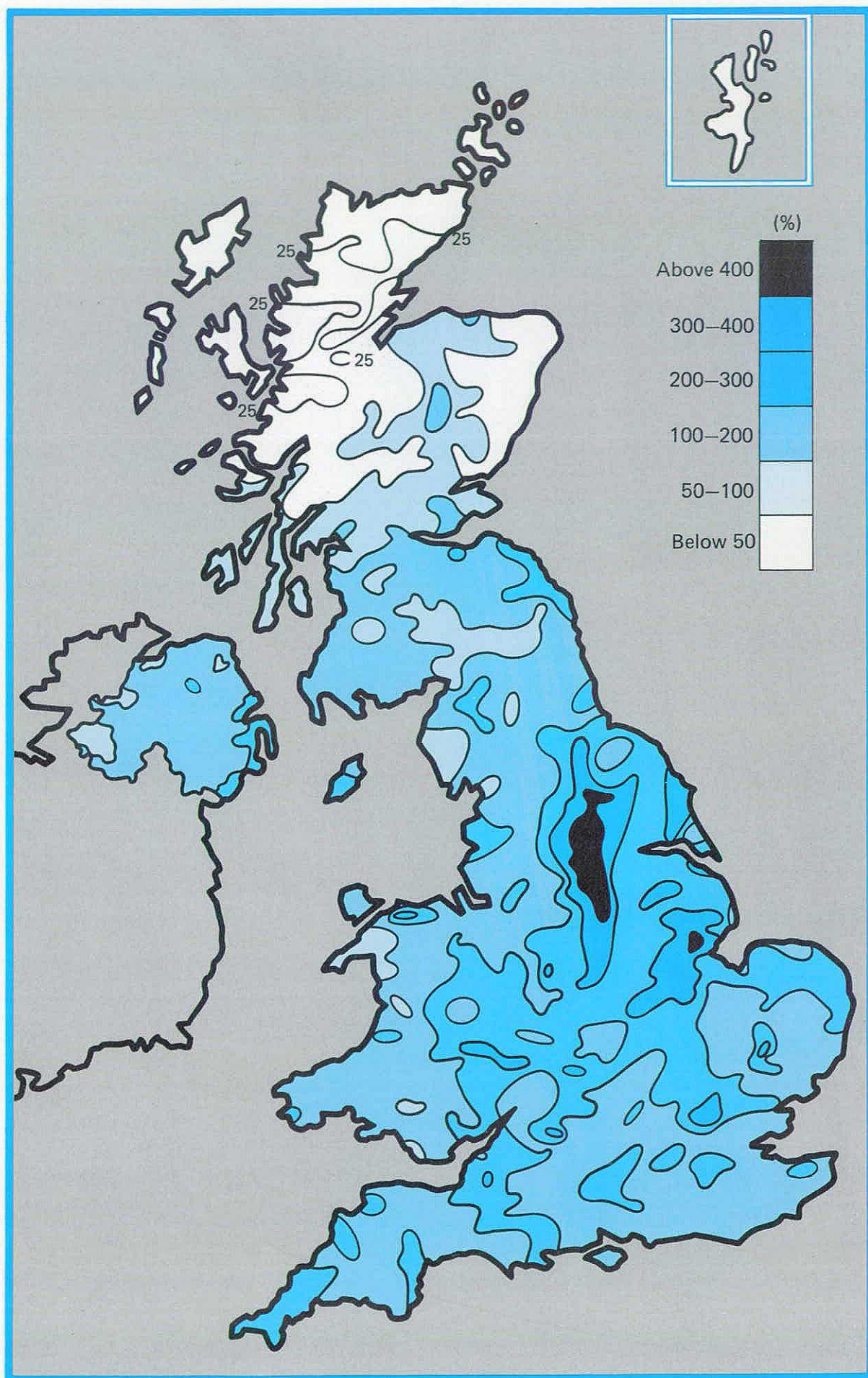


Figure 3. Potential evaporation in 1982 as a percentage of the long term average.

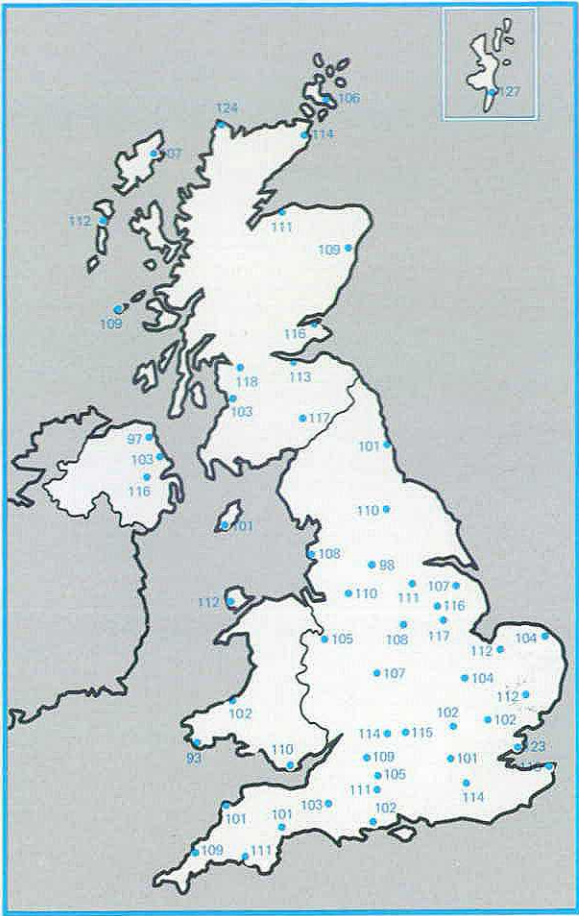


Figure 4. June 1982 rainfall as a percentage of the 1941-70 average.

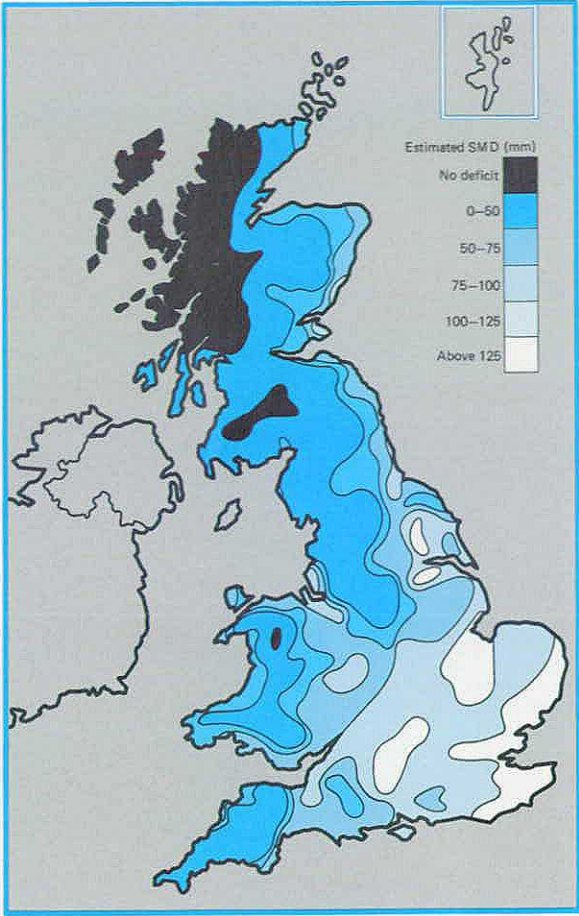


Figure 5. Estimated soil moisture deficits on 15 September 1982.

TABLE 2 'VERY RARE' DAILY RAINFALL TOTALS IN 1982

Date (Rain-day)	Station Number	Name	Grid Reference	Amount (mm)	Return Period* (1 in X years)
11.7.82	393921	Warkleigh	SS 639239	89.0	165
12.7.82	405455	Upton Noble Folly Farm	ST 704385	102.0E	305
4.8.82	185346	Ely, Area Office	TL 551807	123.6	1550
6.8.82	876633	Blairgowrie, Burnhead	NO 174459	108.8	750

*Based on the methods and findings of the Flood Studies Report Vol II¹ (as implemented on the Meteorological Office computer²) whereby a return period can be assigned to the catch at a particular raingauge. Those exceeding a 160 year return period are classified as 'very rare' events.

E - rainfall total estimated

¹Flood Studies Report 1975. Natural Environment Research Council (5 vols).

²Keers J.F. and Wescott P. 1977. A computer-based model for design rainfall in the United Kingdom: Meteorological Office Scientific Paper No.36.

REVIEW OF RUNOFF

Runoff from the United Kingdom in 1982 was substantially above average. For the sixth successive year the annual runoff total was greater than normal and, in 1982, the range of river flows in most regions was exceptional. Notably high discharges, often in association with severe flooding, were recorded in January and March and again towards the end of the year. The frequency of flood, or bankfull, river flows was significantly greater than would be expected on the basis of the previous flow records and the autumn, particularly in Scotland, was characterised by periods of sustained high runoff. Low flows were generally close to, or above, the average despite monthly runoff remaining below normal throughout the late spring and summer in most regions. The exaggerated seasonal pattern displayed by river flows in 1982 has been a feature of the distribution of runoff in recent years.

Figure 6 provides a guide to runoff in Great Britain for 1982 expressed as a percentage of the period of record average. The map is based upon discharge data from over 400 gauging stations and is least precise in northern Scotland where the monitoring network is sparse. Overall, runoff was approximately twenty five per cent above average but considerable regional variation may be recognised. In Scotland runoff for the year was more than 40 per cent greater than normal over wide areas and unprecedented annual runoff totals were recorded for some catchments. The Rivers Clyde and Nith, for instance, established new maximum runoff totals (both for twenty-five year records) and the 1982 annual average flow in the Tay has been exceeded only in 1954. Over England and Wales total runoff was less notable but the spatial variation was more distinct. In the Midlands and Yorkshire some rivers recorded slightly below normal runoff for the year whereas near maximum runoff totals were established for gauging stations with relatively short records in south Wales and in Essex.

Figure 7 (a-d) illustrates the distribution of river flow throughout 1982 and provides a monthly comparison with the maximum, minimum and mean monthly flow from the period of record at individual gauging stations in England, Scotland, Wales and Northern Ireland. Also shown is the single year, and period of record, duration curves from which the atypical nature of the flow regime in 1982 may be readily appreciated. On the Tay, for instance the 95 percentile flow (that flow exceeded 95 per cent of the time) was significantly below average whilst the ten percentile flow was substantially higher than normal.

The year began with a period of intense cold and heavy snowfall followed by a thaw which was rapid and associated with sustained rainfall in some regions. This set of circumstances resulted in

inundation over wide areas with the most severe fluvial flooding in central and northern England and the Scottish borders. With the exception of flows in the River Tay, discharges exceeding 1000 cubic metres per second are rare in the rivers of the United Kingdom. In early January, however, this threshold was exceeded on the Rivers Tweed, Tyne and Yorkshire Ouse and many unprecedented daily mean flows were recorded particularly in Northern Ireland. Yorkshire suffered its most severe floods since 1947 and on 6th January the River Ouse at York rose above the level of March 1947 to register its highest level since 1831. Some 800 properties and 18,700 hectares of agricultural land were inundated and military assistance was deployed to convey personnel and food, evacuate residents and sandbag premises. In the Severn-Trent Water Authority the flood event was estimated to have a return period of 15 years in the Lower Severn division, and 30 years in part of the Trent Valley. The thaw was incomplete in northern Scotland and in some areas snowmelt was a more important influence on river flows towards the end of January when, for example, flows in the River Ewe approached the highest recorded in a twelve year record.

River flows in early spring reflected the precipitation pattern over the United Kingdom; Scottish rivers were generally in full spate whereas throughout England and Wales flows diminished rapidly after the first week of February. March saw a return to high flows in most regions with particularly heavy runoff recorded in south Wales. Some rivers draining into the North Sea did not conform to the general pattern; the Tyne, for instance, was flowing at less than half the February average and remained below the average until October.

As a result of the notable river flows in January and March, total winter (October 1981 – March 1982) runoff was the highest on record in many catchments in Scotland, and several in Wales. Runoff from the Clyde, Tay and Nith catchments established new October-March maxima and continued the recent sequence of wet winters; for each catchment the winter runoff in 1980/81 was, at the time, the second highest recorded.

By the second week of April river levels were falling steadily throughout the United Kingdom and this trend continued, with only minor interruptions, generally until the end of July although flows remained below the seasonal normal well into autumn in some areas. Runoff from the west of Great Britain was very limited in April, especially in northern Scotland, and May when flows in the River Exe were only slightly above the corresponding flows in 1976. Generally, however, flows during the spring fell well within the normal range and were sustained in central and southern England by

high baseflow contribution following the replenishment of groundwaters earlier in the year.

The steady diminution of flows through the summer was broken in some areas by locally intense runoff resulting from a series of violent thunderstorms in June and July. These storms produced substantial floods, generally confined to small catchments, in a band extending from Cornwall to London. On 12 July a number of very small catchments near Chulmleigh in north Devon experienced exceptional flooding as a result of convectional storms; damage to property was however limited due primarily to the low population density in the area. In London the Silk Stream, which drains a predominantly urban catchment rose rapidly following intense rainfall. Water levels increased by 2 metres in the section between Edgware and Wealdstone and the stream velocity was estimated at over 5 metres per second. The Silk Stream was the scene of a major tragedy as, in separate incidents, three boys fell into the flood waters and were drowned.

Following the below average summer discharges, river flows in much of Scotland and Northern Ireland increased steadily from mid August. In the far north the recovery was quicker, new maximum August and September average

flows being recorded on the River Ewe, for instance. Below average river flows were maintained into the autumn in England and Wales but October and, particularly, November were characterised by sequences of bankfull or flood discharges. The series of high flows was more noteworthy in Scotland where the unprecedented October runoff, contrasted with the July minimum, emphasised the remarkable flow range which was a feature of 1982. For the second successive year autumn (September – November) runoff was exceptional in Scotland. Runoff totals were less extreme throughout England and Wales but were generally well above the seasonal average. October river flows were particularly high in southeast England, the Essex Stour for example recorded almost four times the normal runoff and maintained high discharges until the end of the year.

In the south of England many river flows continued to increase in December and rivers like the Itchen and the Mimram, with major baseflow components, recorded their maximum flows for the year. Further north the Tyne again registered a peak flow in excess of $1000 \text{ m}^3\text{s}^{-1}$ in December and throughout the United Kingdom the December average flow was substantially above normal.

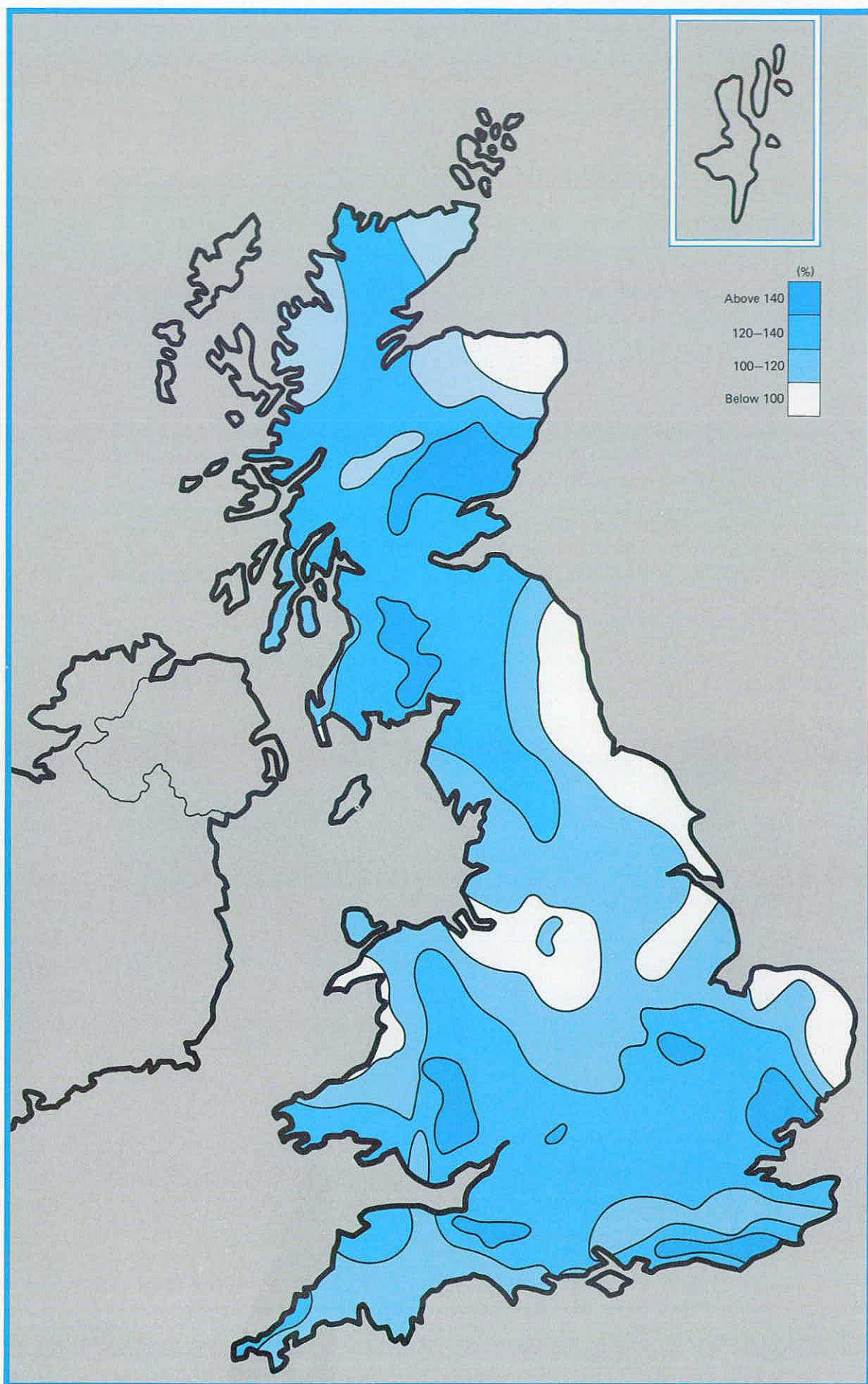


Figure 6. A guide to 1982 runoff expressed as a percentage of the long term average.

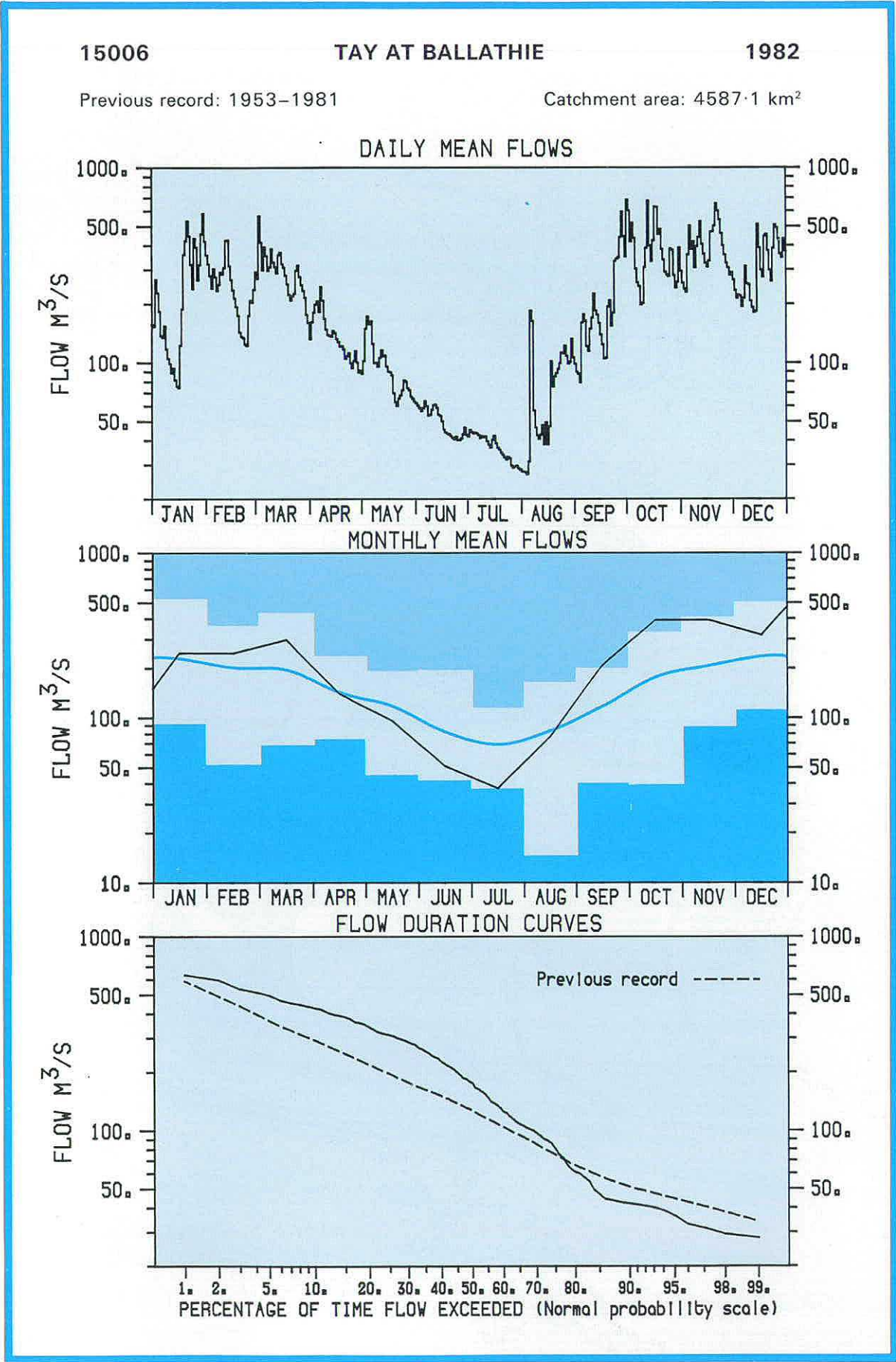


Figure 7(a). 1982 River flow patterns: Tay at Ballathie.

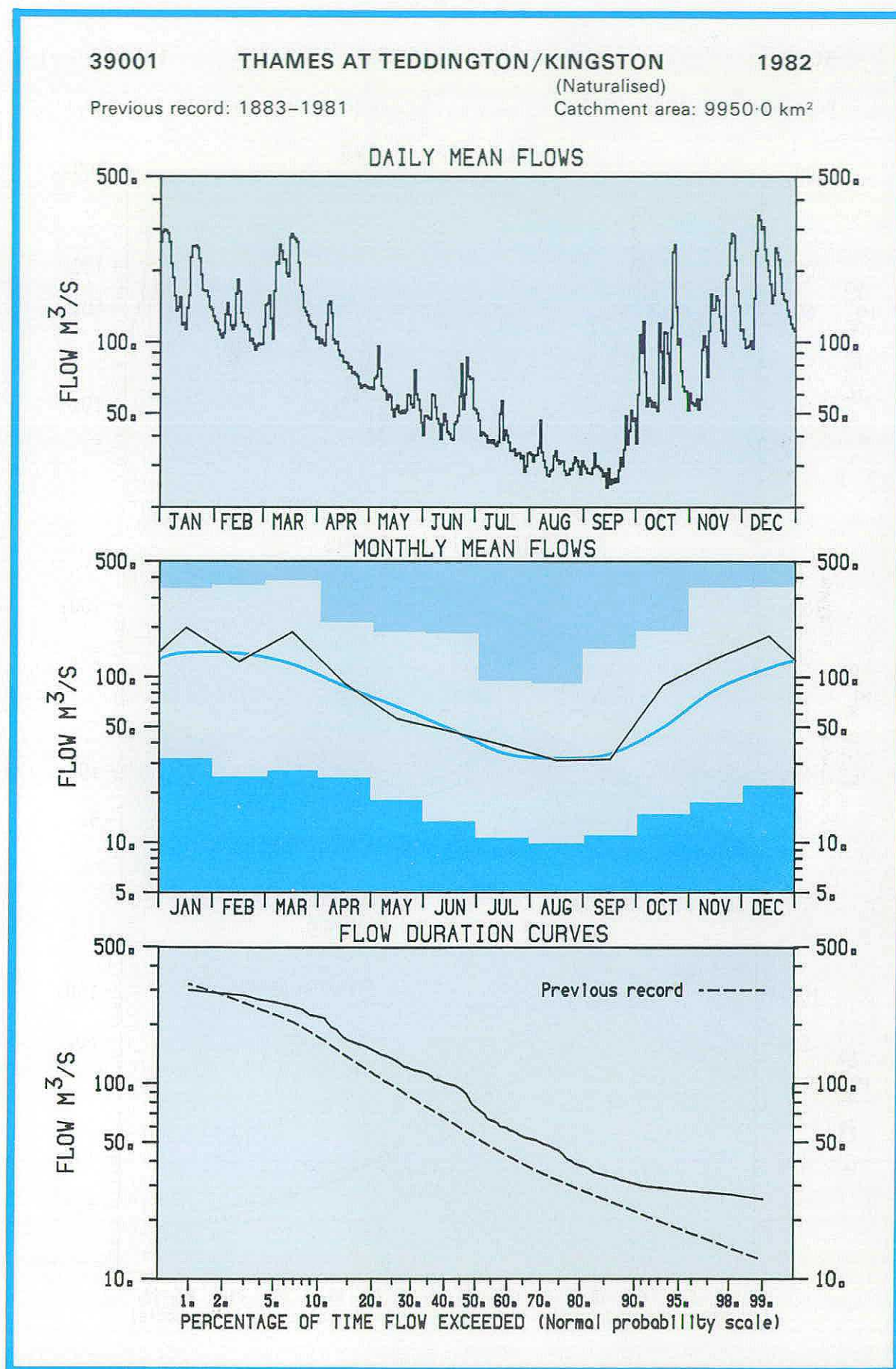


Figure 7(b). 1982 River flow patterns: Thames at Teddington/Kingston.

56001

USK AT CHAINBRIDGE

1982

Previous record: 1958-1981

Catchment area: 911.7 km²

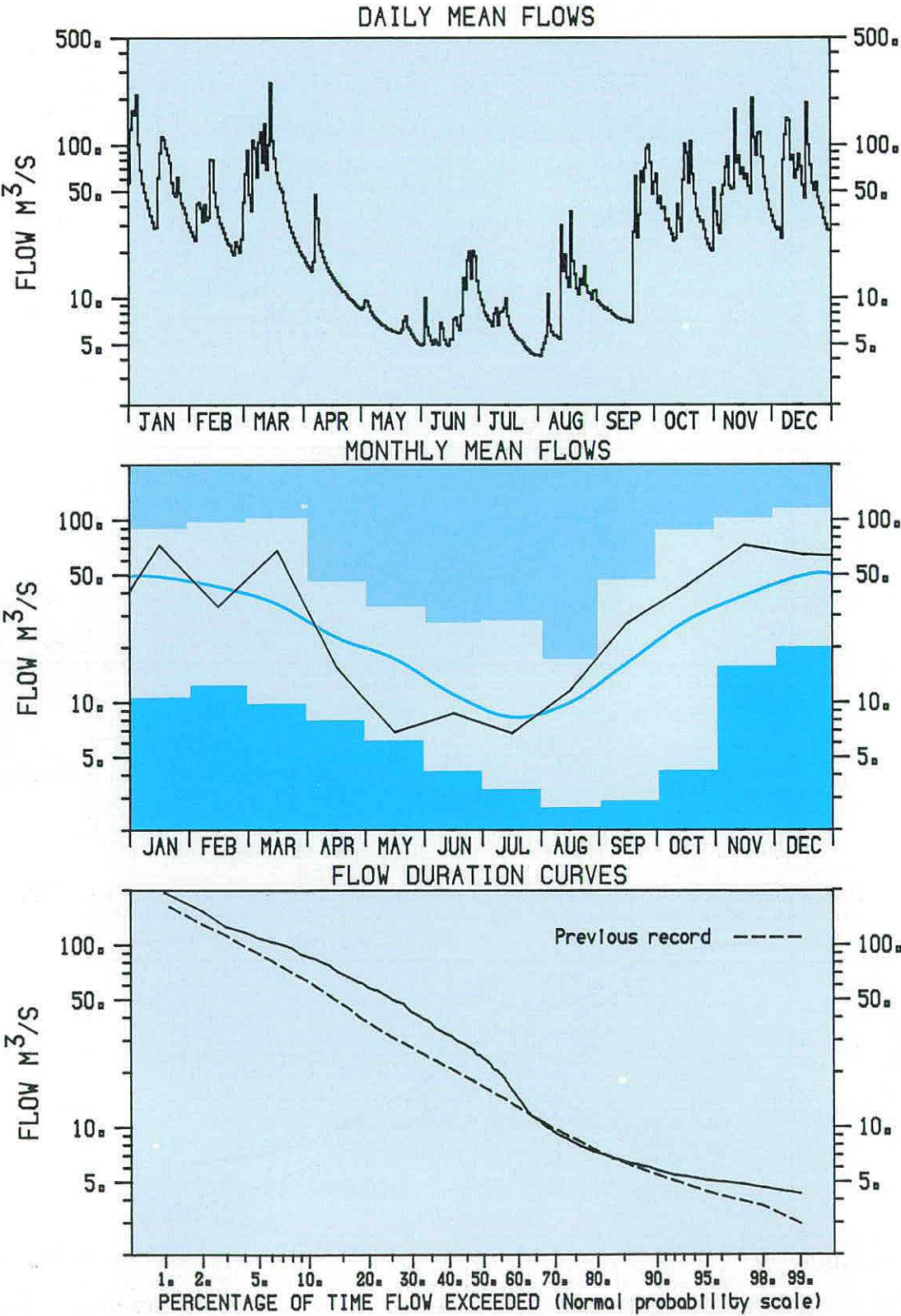


Figure 7(c). 1982 River flow patterns: Usk at Chainbridge.

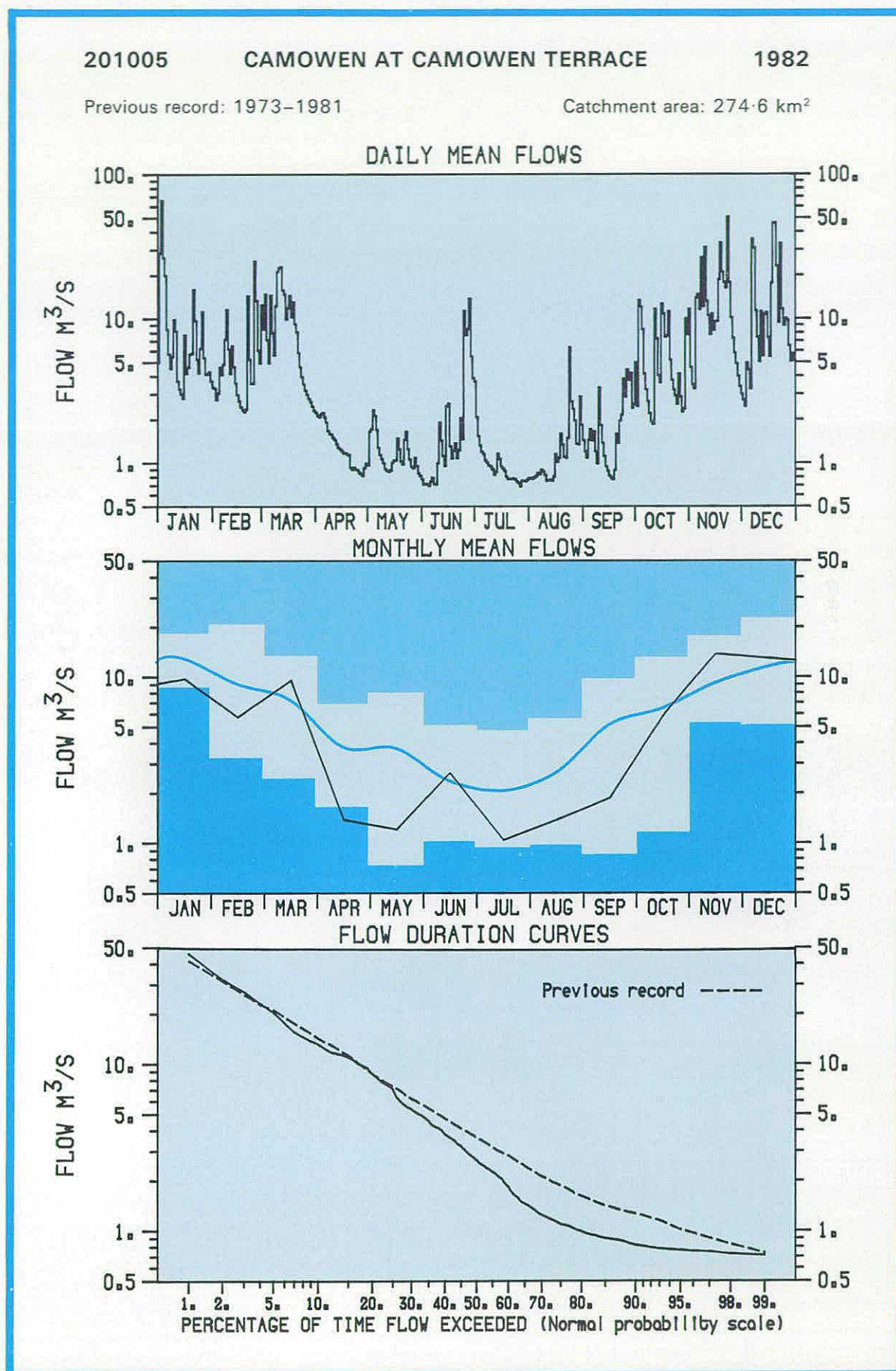


Figure 7(d). 1982 River flow patterns: Camowen at Camowen Terrace.

COMPUTATION AND ACCURACY OF GAUGED FLOWS

Gauged flows are generally calculated by the conversion of the record of stage, or water level, using a stage-discharge relation, often referred to as the rating or calibration. Stage is measured and recorded against time by instruments usually actuated by a float in a stilling well. The instrument records the level either continuously by pen and chart, or digitally on punched tape or solid-state logger, generally at regular (normally 15 minute) intervals. This stage data is normally collected routinely, typically at weekly or monthly intervals, and taken to a regional centre for processing. At some gauging stations provision is made for the routine transmission of river levels directly to the processing centre, by telephone line or, less commonly, by radio; on occasions, satellites have been used to receive and re-transmit the radio signal. Often, both digital and analogue recording devices are deployed at gauging stations to provide a measure of security against loss of record caused by instrument malfunction.

The stage-discharge relation is obtained either by installing a gauging structure, usually a weir or flume with known hydraulic characteristics, or by measuring the stream velocity and cross-sectional area at points throughout the range of flow at a site characterised by its ability to maintain the relationship.

The accuracy of the processed gauged flows therefore depends upon several factors:

- i. accuracy and reliability in measuring and recording water levels,
- ii. accuracy and reliability of the derived stage-discharge relation, and
- iii. concurrency of revised ratings and the stage record with respect to changes in the station control.

Flow data from ultrasonic gauging stations are computed on-site where the times are measured for acoustic pulses to traverse a river section along an oblique path in both directions. The mean river velocity is related to the difference in the two timings and the flow is then assessed using the river's cross-sectional area. Accurate computed flows can be expected for stable river sections and within a range in stage that permits good estimates of mean channel velocity to be derived from a velocity traverse set at a single depth, or at a series of fixed depths.

Flow data from electromagnetic gauging stations may also be computed on site. The technique requires the measurement of the electromotive force (emf) induced in flowing water as it cuts a vertical magnetic field generated by means of a large coil buried beneath the river bed, or constructed above it. This emf is sensed by electrodes at each side of the river and is directly proportional to the average velocity in the cross-section.

British and International Standards are followed as far as possible in the design, installation and operation of gauging stations. Most of these Standards include a section devoted to accuracy, which results in recommendations for reducing uncertainties in discharge measurements and for estimating the extent of the uncertainties which do arise.

The national surface water archive exists to provide not only a central database and retrieval service but also an extra level of hydrological validation. To further this aim, project staff at the Institute liaise with their counterparts in the Water Industry on a regional basis and, by visiting gauging stations and data processing centres, are acquiring the necessary knowledge of local conditions and problems.

SCOPE OF FLOW DATA TABULATIONS

River flow data are presented in two parts. In the first, daily mean gauged flows are tabulated for 49 gauging stations; daily naturalised flows (see p. 25) are also tabulated for the River Thames at Kingston. Monthly flow data for a further 163 gauging stations are given in the second part. The featured gauging stations have been selected to give a broad geographical coverage and to typify a wide range of catchment types found throughout the United Kingdom. A map (Fig. 8) is provided on page 21 to assist in locating the gauging stations featured in this section.

For each gauging station, basic reference information is also given together with comparative average, and extreme, river flow and rainfall figures based upon the archived record.

Explanatory notes precede the two sets of tables and will assist in the interpretation of particular items. The notes relating to the daily flow tables are given on pages 23 to 25; those relating to the monthly data are given on page 76.

STATIONS FOR WHICH DAILY OR MONTHLY DATA ARE GIVEN IN THE RIVER FLOW SECTION

STATION NUMBER	RIVER NAME AND STATION NAME	STATION NUMBER	RIVER NAME AND STATION NAME
3003	OYKEL AT EASTER TURNAIG	28080	TAME AT LEA MARSTON LAKES
4001	CONON AT MOY BRIDGE	29003	LUD AT LOUTH
7002	FINDHORN AT FORRES	30001	WITHAM AT CLAYPOLE MILL
8006	SPEY AT BOAT O BRIG	30004	PARTNEY LYMN AT PARTNEY MILL
9002	DEVERON AT MUIRESK	31002	GLEN AT KATES BRIDGE
10002	UGIE AT INVERUGIE	31007	WELLAND AT BARROWDEN
11001	DON AT PARKHILL	31010	CHATER AT FOSTERS BRIDGE
12001	DEE AT WOODEND	32001	NENE AT ORTON
13007	NORTH ESK AT LOGIE MILL	32003	HARPERS BROOK AT OLD MILLS BRIDGE
14001	EDEN AT KEMBACK	32004	ISE BROOK AT HARROWDEN OLD MILL
15006	TAY AT BALLATHIE	33002	BEDFORD OUSE AT BEDFORD
16003	RUCHILL WATER AT CULTYBRAGGAN	33003	CAM AT BOTTISHAM
16004	EARN AT FORTEVIOT BRIDGE	33004	LARK AT ISLEHAM
17002	LEVEN AT LEVEN	33012	KYM AT MEAGRE FARM
17005	AVON AT POLMÖNTHILL	33013	SAPISTON AT RECTORY BRIDGE
18003	TEITH AT BRIDGE OF TEITH	33014	LARK AT TEMPLE
18005	ALLAN WATER AT BRIDGE OF ALLAN	33024	CAM AT DERNFORD
19001	ALMOND AT CRAIGIEHALL	33032	HEACHAM AT HEACHAM
20001	TYNE AT EAST LINTON	33034	LITTLE OUSE AT ABBEY HEATH
21006	TWEED AT BOLESIDE	34001	YARE AT COLNEY
21009	TWEED AT NORHAM	34006	WAVENEY AT NEEDHAM MILL
21012	TEVIOT AT HAWICK	34018	STIFFKEY AT WARHAM ALL SAINTS
21018	LYNE WATER AT LYNE STATION	35002	DEBEN AT NAUNTON HALL
21022	WHITE ADDER WATER AT HUTTON CASTLE	36006	STOUR AT LANGHAM
22001	COQUET AT MORWICK	37001	RODING AT REDBRIDGE
22006	BLYTHE AT HARTFORD BRIDGE	37005	COLNE AT LEXDEN
23001	TYNE AT BYWELL	37008	CHELMER AT SPRINGFIELD
23006	SOUTH TYNE AT FEATHERSTONE	37010	BLACKWATER AT APPLEFORD BRIDGE
23007	DERWENT AT ROWLANDS GILL	37014	RODING AT HIGH ONGAR
24004	BEDBURN BECK AT BEDBURN	38003	MIMRAM AT PANSHANGER PARK
24009	WEAR AT CHESTER LE STREET	38007	CANONS BROOK AT ELIZABETH WAY
25001	TEES AT BROKEN SCAR	38021	TURKEY BROOK AT ALBANY PARK
25006	GRETA AT RUTHERFORD BRIDGE	39001	THAMES AT TEDDINGTON/KINGSTON
25018	TEES AT MIDDLETON IN TEESDALE	39002	THAMES AT DAYS WEIR
25019	LEVEN AT EASBY	39007	BLACKWATER AT SWALLOWFIELD
25020	SKERNE AT PRESTON LE SKERNE	39011	WEY AT TILFORD
26003	FOSTON BECK AT FOSTON MILL	39014	VER AT HANSTEADS
26004	GYPSY RACE AT BRIDLINGTON	39016	KENNET AT THEALE
27002	WHARFE AT FLINT MILL WEIR	39019	LAMBOURN AT SHAW
27007	URE AT WESTWICK LOCK	39020	COLN AT BIBURY
27025	ROTHER AT WOODHOUSE MILL	39022	LODDON AT SHEEPBRIDGE
27031	COLNE AT COLNEBRIDGE	39023	WYE AT HEDSOR
27035	AIRE AT KILDWICK BRIDGE	39026	CHERWELL AT BANBURY
27041	DERWENT AT BUTTERCRAMBE	39049	SILK STREAM AT COLINDEEP LANE
27042	DOVE AT KIRKBY MILLS	39069	MOLE AT KINNERSLEY MANOR
27043	WHARFE AT ADDINGHAM	40003	MEDWAY AT TESTON
27053	NIDD AT BIRSTWITH	40004	ROTHER AT UDIAM
27059	LAVER AT RIPON	40005	BEULT AT STILE BRIDGE
28009	TRENT AT COLWICK	40009	TEISE AT STONE BRIDGE
28010	DERWENT AT LONGBRIDGE WEIR	41001	NUNNINGHAM STREAM AT TILLEY BRIDGE
28018	DOVE AT MARSTON ON DOVE		
28031	MANIFOLD AT ILAM		
28039	REA AT CALTHORPE PARK		
28072	GREET AT SOUTHWELL		

continued on p. 22



Figure 8. Gauging station location map.

41005	OUSE AT GOLD BRIDGE	61003	GWAUN AT CILRHEDYN BRIDGE
41006	UCK AT ISFIELD	62001	TEIFI AT GLAN TEIFI
41016	CUCKMERE AT COWBEECH	63001	YSTWYTH AT PONT LLOLWYN
41025	LOXWOOD STREAM AT DRUNGEWICK	64001	DOVEY AT DOVEY BRIDGE
42003	LYMINGTON AT BROCKENHURST PARK	65001	GLASLYN AT BEDDGELERT
42006	MEON AT MISLINGFORD	65005	ERCH AT PENCAENEWYDD
42008	CHERITON STREAM AT SEWARDS BRIDGE	66006	ELWY AT PONT Y GWYDDEL
42010	ITCHEN AT HIGHBRIDGE	67008	ALYN AT PONT Y CAPEL
42012	ANTON AT FULLERTON	67015	DEE AT MANLEY HALL
43005	AVON AT AMESBURY	67025	CLYWEDOG AT BOWLING BANK
43007	STOUR AT THROOP MILL	68001	WEAVER AT ASHBROOK
44002	PIDDLE AT BAGGS MILL	68003	DANE AT RUDHEATH
45001	EXE AT THORVERTON	68020	GOWY AT BRIDGE TRAFFORD
45003	CULM AT WOODMILL	69002	IRWELL AT ADELPHI WEIR
45005	OTTER AT DOTTON	69003	IRK AT SCOTLAND WEIR
46002	TEIGN AT PRESTON	69006	BOILIN AT DUNHAM MASSEY
46003	DART AT AUSTINS BRIDGE	69007	MERSEY AT ASHTON WEIR
47001	TAMAR AT GUNNISLAKE	69015	ETHEROW AT COMPSTALL
47007	YEALM AT PUSLINCH	70004	YARROW AT CROSTON MILL
47008	THRUSHEL AT TINHAY	71001	RIBBLE AT SAMLESBURY
48001	FOWEY AT TREKEIVESTEPS	71004	CALDER AT WHALLEY WEIR
48004	WARLEGGAN AT TRENGOFFE	71010	PENDLE WATER AT BARDEN LANE
48005	KENWYN AT TRURO	72002	WYRE AT ST MICHAELS
48011	FOWEY AT RESTORMEL	72004	LUNE AT CATON
49001	CAMEL AT DENBY	73002	CRAKE AT LOW NIBTHWAITE
49002	HAYLE AT ST ERTH	73005	KENT AT SEDGWICK
50001	TAW AT UMBERLEIGH	73008	BELA AT BEETHAM
50002	TORRIDGE AT TORRINGTON	73010	LEVEN AT NEWBY BRIDGE
52003	HAISEWATER AT BISHOPS HULL	74001	DUDDON AT DUDDON HALL
52005	TONE AT BISHOPS HULL	74002	IRT AT GALESYKE
52006	YEO AT PEN MILL	74005	EHEN AT BRAYSTONES
52007	PARRETT AT CHISELBOROUGH	75002	DERWENT AT CAMERTON
53004	CHEW AT COMPTON DANDO	75004	COCKER AT SOUTHWAITE BRIDGE
53006	FROME (BRISTOL) AT FRENCHAY	76007	EDEN AT SHEEPMOUNT
53007	FROME (SOMERSET) AT TELLISFORD	76015	EAMONT AT POOLEY BRIDGE
53009	WELLOW BROOK AT WELLOW	78003	ANNAN AT BRYDEKIRK
53018	AVON AT BATHFORD	78004	KINNEL WATER AT REDHALL
54001	SEVERN AT BEWDLEY	79006	NITH AT DRUMLANRIG
54002	AVON AT EVESHAM	80001	URR AT DALBEATTIE
55008	WYE AT CEFN BRWYN	81003	LUCE AT AIRYHEMMING
55012	IRFON AT CILMERY	82001	GIRVAN AT ROBSTONE
55014	LUGG AT BYTON	83003	AYR AT CATRINE
55023	WYE AT REDBROOK	84001	KELVIN AT KILLERMONT
55026	WYE AT DDOL FARM	84005	CLYDE AT BLAIRSTON
56001	USK AT CHAIN BRIDGE	84009	NETHAN AT KIRKMUIRHILL
56002	EBBW AT RHIWDERYN	85001	LEVEN AT LINNBRANE
56007	SENNI AT PONT HEN HAFOD	85003	FALLOCH AT GLENFALLOCH
56013	YSCIR AT PONTARYSCIR	94001	EW E AT POOLEWE
57005	TAFF AT PONTYPRIDD	95001	INVER AT LITTLE ASSYNT
57008	RHYMMEY AT LLANEDERYN	96001	HALLADALE AT HALLADALE
58001	OGMORE AT BRIDGEND	201005	CAMOWEN AT CAMOWEN
58006	MELLTE AT PONTNEATHVAUGHAN	201007	BURNDENNET AT BURNDENNET BRIDGE
59001	TAFE AT YNYS TANGLWS	203010	BLACKWATER AT MAYDOWN BRIDGE
60003	TAF AT CLOG Y FRAN	205005	RAVERNET AT RAVERNET

Part (i) – the daily mean flow tabulations

Station Number

The gauging station number is a unique six digit reference number which serves as the primary identifier of the station record on the surface water archive. The first digit is a regional identifier being 0 for mainland Britain, 1 for the islands around Britain and 2 for Ireland. This is followed by the hydrometric area number given in the second and third digits. Hydrometric areas are either integral river catchments having one or more outlets to the sea or tidal estuary, or, for convenience, they may include several contiguous river catchments having topographical similarity with separate tidal outlets. In Britain they are numbered from 1 to 97 in clockwise order around the coastline commencing in north east Scotland; Ireland has a unified numbering system from 1 to 40, commencing with the River Foyle catchment and circulating clockwise; not all Irish hydrometric areas, however, have an outlet directly on the coast.

The numbers and boundaries of the United Kingdom hydrometric areas are shown in the frontispiece.

The practice followed in the *Surface Water: United Kingdom* publications of using the fourth digit to denote certain characteristics of a gauging station, or of its flow record, has been discontinued. Normally this function is now performed by the station description (see below).

The fourth, fifth and sixth digits comprise the number, usually allocated chronologically, of the gauging station within the hydrometric area.

Where the leading digit, or digits, are zero they may be omitted giving rise to apparent four or five digit reference numbers.

Measuring Authority

An abbreviation referencing the organisation responsible for the operation of the gauging station. A list of measuring authority codes together with the corresponding names and addresses for all organisations currently contributing data to the surface water archive appears on pages 164 and 165.

Grid Reference

Standard two-letter and six figure map reference using the National Grid in Great Britain and the Irish Grid in Northern Ireland. (The Irish Grid has only one prefix letter but it is common practice to precede it with the letter I to make the identification clear).

Catchment Area

The surface catchment area in the horizontal plane of the gauging station in square kilometres. There are a few gauging stations where, because of geological considerations, the groundwater catchment area differs appreciably from the surface water catchment area and, in consequence, the baseflow, whether augmented or diminished, may cause the runoff value to appear anomalous.

First Year

The year in which the station started producing daily mean flow data, usually the first year for which data are held on the surface water archive. Earlier data, often of a sporadic nature, or of poorer quality, may occasionally be available from the measuring authorities or other sources.

Level of Station

The level of the station is, generally, the level of the gauge zero in metres above Ordnance Datum, or above Malin Head Datum for stations in Northern Ireland. Although gauge zero is usually closely related to zero discharge, it is the practice in some areas for an arbitrary height, typically one metre, to be added to the level of the lowest crest of a measuring structure to avoid the possibility of false recording of negative values by some digital recorders.

Maximum Altitude

The level to the nearest metre of the highest point in the catchment area.

Table of daily mean gauged (or naturalised) discharges

The mean flow in cubic metres per second (cumecs) in a water-day, normally 0900 am to 0900 am. The naturalised discharge is the gauged discharge adjusted to take account of net abstractions and discharges upstream of the gauging station.

Peak Flow: The highest flow in cubic metres per second for each month. The day of peak generally refers to the water-day but the calendar day is also used, particularly in Scotland. Normally the peak flow corresponds to the highest fifteen minute flow where water levels are recorded digitally, or the highest instantaneous flow associated with maximum stage where analogue recorders are used.

Runoff: The notional depth of water in millimetres over the catchment equivalent to the mean flow for

the month as measured at the gauging station. It is computed using the relationship:

Runoff in mm =

$$\frac{\text{Average Flow in Cumecs} \times 86.4 \times n}{\text{Catchment Area (km}^2\text{)}}$$

where n is the number of days in the month.

The runoff total is rounded to the nearest millimetre.

Rainfall: The rainfall over the catchment in millimetres for each month. It is derived by first obtaining the long-period (1941–70) average annual rainfall for each catchment. Then, for each of a selected number of raingauges chosen to represent the catchment, the monthly rainfall is expressed as a percentage of its annual average rainfall. The percentage values of rainfall for each raingauge are summed and their mean obtained to give a catchment percentage value for the month, which is then converted to monthly mean rainfall (mm). Accuracy therefore depends largely on the reliability of the assessment of the areal annual average and on the adequacy of the network of raingauges used to represent an area.

Statistics of monthly data for previous record

Only complete monthly records are used in the derivation of the average, low and high values of river flow, runoff and rainfall. The rainfall and runoff statistics are normally directly comparable but full equivalence will not obtain where the pattern of missing data differs between the archived rainfall and runoff data sets.

Where applicable, a guide to the amount of missing data is given following the section heading.

Summary statistics

Current year flow statistics are tabulated alongside the corresponding values for the previous record. Where appropriate, the current year figures are expressed as a percentage of the preceding average.

Mean Flow: The average of all available daily mean flows during the term indicated.

Lowest Daily Mean: The value and date of occurrence of the lowest mean flow in cubic metres per second in a water-day during the term indicated. In a record in which the value recurs, the date is that of the last occasion.

It should be emphasised that river flow measurement tends to become more imprecise at very low discharges. Minimal velocities, heavy weed growth and the insensitivity of stage-discharge relations combine with difficulties of the accurate measurement of limited water depths to reduce the accuracy of computed flows.

The reliability of both the lowest daily mean flow and the 95 percentile flows (see below) as representative measures of low flow must be considered carefully and the values used with caution in view of the increasing proportional variability between the natural flow and the artificial influences, such as abstractions, discharges, and storage changes as the river flow diminishes.

Peak: The peak flow in cubic metres per second during the term indicated. The date of occurrence, normally the water-day, is also indicated. Generally, the peak flows are derived from the record of monthly instantaneous maximum flows stored on the surface water archive. As a result of particular flow-measurement difficulties in the flood range this peak flow series is often incomplete. Consequently, in some cases, the peak flow from the previous period of record has been abstracted from Volume IV of the Flood Studies Report¹. Reference to this report should be made to check for historical flood events which may exceed the peak falling within the gauged flow record.

10 percentile: The flow in cubic metres per second which was equalled or exceeded for 10 per cent of the specified term – a high flow parameter which, when compared with the mean may give a measure of the variability, or 'flashiness', of the flow regime. The 10 percentile is computed using daily flow data only for those years with ten days, or less, missing on the surface water archive.

50 Percentile: The flow in cubic metres per second which was equalled or exceeded for 50 per cent of the specified term – the median value. The same conditions for completeness of the annual records apply as for the 10 percentile flow.

95 Percentile: The flow in cubic metres per second which was equalled or exceeded for 95 per cent of the specified term – a significant low flow parameter relevant in the assessment of river water quality consent conditions. The same conditions for completeness of the annual records apply as for the 10 percentile flow.

Factors affecting flow regime

An indication of the various types of abstractions from, and discharges to, the river operating within the catchment which alter the natural flow is given by a standard set of abbreviated descriptions. In

¹ Flood Studies Report 1975. Natural Environment Research Council (5 vols)

Part (ii) – the monthly flow data – each description is shortened to a code letter. An explanation of the abbreviated descriptions and the code letters is given below. With the exception of the induced loss in surface flow resulting from underlying

groundwater abstraction, these codes and descriptions refer to quantifiable variations and do not include the progressive, and difficult to measure, modifications in the regime related to land-use changes.

CODE	EXPLANATION	ABBREVIATED DESCRIPTION
N	Natural, i.e., there are no abstractions and discharges or the variation due to them is considered so limited that the gauged flow is within 10% of the natural flow at, or in excess of, the 95 percentile flow.	Natural within 10% at the 95 percentile flow.
	Storage or impounding reservoir. Natural river flows will be effected by water stored in a reservoir situated in, and supplied from, the catchment above the gauging station;	Reservoirs in catchment.
R	Regulated river. Under certain flow conditions the river will be augmented from surface water and/or groundwater storage upstream of the gauging station.	Augmentation from surface water and/or groundwater.
	Public water supplies. Natural river flows are reduced by the quantity abstracted from a reservoir or by a river intake if the water is conveyed outside the gauging station's catchment area.	Abstraction for public water supply.
G	Groundwater abstraction. Natural river flow may be reduced or augmented by groundwater abstraction or recharge. This category includes catchments where minewater discharges influence the flow regime.	Flows influenced by groundwater abstraction and/or recharge.
	Effluent return. Outflows from sewage treatment works will augment the river flow if the effluents originate from outside the catchment.	Augmentation from effluent returns.
	Industrial and agricultural abstractions. Direct industrial and agricultural abstractions from surface water and from groundwater may reduce the natural river flow.	Flow reduced by industrial and/or agricultural abstraction.
H	Hydro-electric power. The river flow is regulated to suit the need for power generation.	Regulation for HEP.

Except for a small set of gauging stations for which the net variation, i.e. the sum of abstractions and discharges, is assessed in order to derive the 'naturalised' flow from the gauged flow, the record of individual abstractions, discharges and changes in storage as indicated in the code above is not held centrally.

Station description

A concise description of the gauging station. When appropriate, details of the station history are included together with any factors limiting the availability or accuracy of the associated river flow record.

Comment

A summary of any important factors influencing the accuracy of the current year's flow data specifically; for instance, the reconstruction of a gauging station or the use of extrapolated stage-discharge relations during periods of very low or very high flows.

003003 Oykel at Easter Turnaig**1982**Measuring authority: HRPB
First year: 1977Grid reference: NC 403001
Level sin. (m OD) 15.62Catchment area (sq km): 330.7
Max alt. (m OD) 998**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16 230	16 320	37 400	5 573	23 850	1 774	2 146	0 972	12 580	8 427	15 140	14 750
2	19 260	10 780	40 430	4 606	28 050	1 612	2 530	0 962	16 410	7 427	11 850	9 140
3	15 170	7 601	59 130	4 555	69 710	1 470	9 359	0 952	104 400	5 734	8 737	6 996
4	8 119	5 992	16 390	5 774	109 000	1 368	20 220	0 915	34 130	18 370	8 845	10 160
5	6 409	5 168	8 956	5 185	51 450	1 280	13 590	0 901	16 400	11 710	7 770	20 190
6	9 639	8 159	22 030	4 505	16 500	1 239	10 540	2 340	18 410	9 221	20 680	12 070
7	16 950	9 503	10 480	7 028	11 430	1 175	5 881	2 262	41 030	17 760	11 590	9 970
8	17 410	21 930	7 265	6 626	10 420	1 083	4 028	1 847	53 890	15 180	11 000	45 260
9	16 130	13 280	12 160	11 400	9 983	1 020	5 392	2 071	16 990	13 070	19 050	13 740
10	15 210	7 493	27 900	8 647	9 429	0 963	4 630	2 758	11 410	10 710	21 690	10 310
11	13 230	9 948	12 860	5 112	7 970	0 934	3 499	2 305	8 780	12 230	25 870	7 795
12	11 200	20 640	11 180	4 837	6 913	1 041	2 738	3 076	14 990	35 620	19 220	6 233
13	9 682	22 520	31 390	4 185	6 880	1 040	2 257	9 901	11 400	48 330	28 160	7 422
14	26 730	12 800	28 090	7 977	6 220	1 038	10 230	8 952	9 036	19 990	21 420	74 360
15	11 900	7 793	15 780	9 744	4 776	1 049	23 320	5 361	22 080	12 060	69 710	86 620
16	26 160	5 457	20 630	9 017	6 267	0 962	8 988	8 134	13 260	8 955	39 410	18 650
17	14 830	4 584	40 970	5 450	4 844	0 920	7 767	17 320	9 068	7 225	39 720	10 020
18	17 050	4 114	19 970	4 005	13 540	0 846	5 423	11 410	41 940	6 888	104 800	8 654
19	18 890	3 879	12 310	3 321	9 883	0 836	3 752	36 150	16 070	25 150	71 700	51 690
20	15 000	3 384	10 750	3 468	6 501	0 841	2 934	101 800	40 550	28 260	30 360	73 770
21	14 110	2 748	14 330	2 946	4 586	0 799	2 432	37 020	72 620	15 090	43 020	31 370
22	22 660	2 813	12 290	4 048	16 000	0 757	2 050	19 130	21 050	15 210	38 670	13 820
23	19 030	2 920	17 530	8 592	7 890	0 722	1 821	11 920	12 320	12 500	21 260	108 800
24	28 150	2 847	30 210	8 187	6 520	0 718	1 623	40 300	24 200	10 890	13 220	101 400
25	55 240	2 804	12 630	4 131	6 811	0 691	1 477	27 060	16 460	10 210	20 420	59 810
26	42 930	22 480	8 019	3 585	4 567	0 677	1 364	20 060	18 190	19 390	49 320	27 570
27	40 700	21 090	8 069	3 045	3 413	0 708	1 300	33 430	23 850	18 570	21 850	25 190
28	54 450	26 620	18 610	8 088	2 821	1 175	1 236	38 880	17 270	8 869	28 190	26 670
29	404 900		17 080	28 100	2 594	5 211	1 112	32 780	12 730	6 665	23 580	15 660
30	168 800		8 562	28 380	2 222	2 937	1 068	48 060	9 581	16 820	19 690	21 380
31	32 360		6 685		1 922		1 005	20 700		16 860		13 270
Average	38 280	10 200	19 360	7 271	15 260	1 229	5 344	17 730	24 700	15 210	28 800	30 410
Lowest	6 409	2 748	6 685	2 946	1 922	0 677	1 005	0 901	8 780	5 734	6 845	6 233
Highest	404 900	26 620	59 130	28 380	109 000	5 211	23 320	101 800	104 400	48 330	104 800	108 800
Peak flow	510 700	66 840	119 600	119 000	129 600	9 032	52 450	196 600	244 300	104 300	193 200	305 000
Day of peak	29	26	3	30	4	29	15	20	3	13	18	24
Monthly total (million cu m)	102 50	24 68	51 85	18 85	40 86	3 19	14 31	47 50	64 03	40 73	74 64	81 45
Runoff (mm)	310	75	157	57	124	10	43	144	194	123	226	246
Rainfall (mm)	234	96	168	82	154	44	70	244	255	146	288	260

Statistics of monthly data for previous record (Nov 1977 to Dec 1981)

Mean flows	Avg.	22 830	17 220	17 210	9 192	5 401	9 768	8 884	8 366	26 710	31 330	36 980	19 320
Low (year)	16 030	14 420	6 548	5 446	1 067	6 918	2 853	5 825	21 090	7 328	26 810	8 245	
High (year)	1980	1979	1980	1980	1980	1978	1978	1981	1979	1979	1980	1980	1977
Low (year)	39 180	22 610	28 000	17 720	12 360	14 140	15 690	13 730	31 870	41 100	49 380	38 210	
High (year)	1981	1981	1979	1979	1979	1980	1979	1980	1981	1980	1981	1980	1980
Runoff: Avg	185	127	139	72	44	77	72	68	209	254	290	156	
Low	130	105	64	43	9	54	23	47	165	59	211	67	
High	317	185	227	139	100	111	127	111	250	333	387	309	
Rainfall: Avg	310	162	145	76	78	101	81	79	326	401	458	123	
(1981 only) Low	310	162	145	76	78	101	81	79	326	401	458	123	
High	310	162	145	76	78	101	81	79	326	401	458	123	

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	17 900	17 740	101
Lowest yearly mean		16 370	1978
Highest yearly mean		20 250	1981
Lowest monthly mean	1 229	1 087	May 1980
Highest monthly mean	38 280	49 380	Nov 1981
Lowest daily mean	0 677	0 596	18 May 1980
Highest daily mean	404 900	362 200	5 Oct 1978
Peak	510 700	847 500	5 Oct 1978
10 %ile	39 380	42 070	
50 %ile	10 850	8 919	94
95 %ile	0 980	1 191	122
Annual total (million cu m)	584 50	559 80	82
Annual runoff (mm)	1707	1693	101
Annual rainfall (mm)	2061	2340	88
[1941-70 rainfall average (mm)]			

Factors affecting flow regime

● Natural to within 10% at 95 percentile flow

Station description

Velocity-area station. Flow contained under cableway up to 3.8 m

008006 Spey at Boat o Brig**1982**Measuring authority: NERPB
First year: 1952Grid reference: NJ 318518
Level stn. (m OD) 43.12Catchment area (sq km): 2861.2
Max alt. (m OD): 1309

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	84.330	181.800	68.010	81.590	45.520	35.230	21.130	13.180	56.220	89.080	67.080	107.000
2	53.140	137.600	64.570	62.830	44.310	33.910	20.080	13.050	42.440	159.000	55.760	86.320
3	69.740	106.300	166.200	61.770	62.780	33.390	20.430	12.980	35.520	109.100	49.910	64.830
4	52.290	86.050	157.200	72.970	108.700	32.150	21.580	12.770	33.850	139.200	46.410	62.550
5	47.360	87.160	106.000	80.520	131.100	30.900	20.540	12.740	45.440	149.300	45.350	88.040
6	40.040	92.730	122.800	86.670	98.810	29.800	19.610	93.720	90.700	115.000	89.950	63.830
7	30.350	87.590	112.200	114.500	79.930	28.370	18.980	152.100	86.280	289.900	77.740	53.400
8	29.220	76.920	79.510	114.500	80.890	27.030	17.970	81.080	60.060	236.100	65.160	77.010
9	28.110	86.780	65.150	82.980	81.220	25.530	17.820	40.910	46.960	181.800	55.340	73.130
10	28.110	77.060	69.230	81.610	73.540	24.090	19.600	33.570	40.700	172.500	99.230	62.390
11	28.110	84.430	68.430	81.520	87.310	24.120	22.440	28.900	40.690	222.600	131.100	58.840
12	28.110	83.450	58.910	52.070	66.890	25.230	22.410	27.700	42.960	224.500	111.800	51.930
13	28.110	140.800	54.610	47.870	65.510	25.160	19.730	26.020	53.800	368.700	92.450	47.790
14	32.670	100.700	68.770	48.780	77.070	24.120	18.720	25.600	42.920	226.600	73.650	48.980
15	32.670	75.800	77.250	56.090	72.870	22.810	34.870	24.140	37.120	152.300	61.950	208.800
16	37.000	63.360	67.350	84.180	67.470	21.810	46.990	22.780	33.580	118.000	66.880	143.900
17	79.330	54.030	93.780	61.110	58.780	21.090	32.520	23.380	31.160	163.600	70.260	85.980
18	131.000	52.120	122.300	53.880	58.110	20.410	28.210	43.380	30.360	188.100	210.500	65.010
19	194.700	49.010	87.730	52.350	62.810	20.040	22.430	48.710	30.390	125.300	189.900	91.600
20	170.200	46.170	73.010	52.830	53.590	19.470	20.260	98.330	43.910	121.700	147.600	128.100
21	148.500	40.650	69.530	50.210	47.470	18.920	18.770	88.900	78.210	101.000	211.100	136.600
22	142.300	40.210	72.050	51.020	51.260	18.590	17.700	78.820	59.490	83.570	192.400	89.600
23	127.700	39.320	82.520	53.400	55.010	18.250	16.960	57.880	62.530	71.890	159.400	74.980
24	100.500	37.510	159.100	48.110	58.060	17.840	16.270	69.930	83.670	64.130	123.200	178.700
25	188.000	35.800	142.800	51.850	51.450	17.160	15.780	68.390	123.900	57.970	101.700	234.100
26	193.800	35.690	111.900	53.160	47.200	17.610	15.190	54.810	102.500	62.590	102.400	233.200
27	132.400	49.160	90.890	53.580	42.100	18.980	14.820	45.070	119.300	84.530	132.100	161.300
28	162.700	59.970	80.250	50.670	39.550	20.270	14.520	38.080	180.100	67.180	87.260	114.200
29	230.500	78.400	47.150	47.150	37.880	27.190	14.310	33.710	150.000	56.180	71.830	101.300
30	323.200	86.170	43.080	43.080	37.940	23.540	13.910	84.880	100.700	55.860	90.180	135.300
31	249.400	63.160		36.330			13.540	83.980		78.930		121.700
Average	102.600	75.290	90.190	62.420	63.270	24.090	20.510	48.300	65.850	140.700	102.700	104.800
Lowest	28.110	35.690	54.610	43.080	36.330	17.160	13.540	12.740	30.360	55.860	45.350	47.790
Highest	323.200	181.800	166.200	114.500	131.100	35.230	48.990	152.100	180.100	368.700	211.100	234.100
Peak flow	359.800	208.800	207.100	160.100	160.800	35.790	63.390	298.200	218.600	480.600	318.300	314.600
Day of peak	30	1	3	7	5	1	15	6	27	13	18	25
Monthly total (million cu m)	274.90	182.10	241.60	161.80	169.50	62.43	54.92	129.40	170.70	375.50	266.10	280.70
Runoff (mm)	96	84	84	57	59	22	19	45	60	131	93	98
Rainfall (mm)	113	65	127	43	89	38	48	161	134	186	166	149

Statistics of monthly data for previous record (Oct 1952 to Dec 1981)

Mean flows	Avg	82.930	71.150	72.290	88.820	57.950	41.800	41.580	50.130	47.740	67.130	75.440	86.420
	Low	41.080	26.470	35.790	33.800	28.900	17.920	18.060	11.310	14.090	13.340	30.140	38.760
	(year)	1979	1983	1984	1974	1960	1961	1976	1955	1972	1972	1958	1976
	High	145.000	159.100	145.200	135.200	103.500	103.000	79.860	119.600	105.400	153.900	117.600	198.700
	(year)	1981	1982	1978	1979	1988	1966	1980	1956	1955	1981	1977	1954
Runoff	Avg	78	61	68	62	54	38	39	47	43	63	68	81
	Low	38	22	34	30	25	16	17	11	13	12	27	38
	High	136	135	136	122	97	93	75	112	95	144	107	186
Rainfall	Avg	103	70	77	64	77	75	91	97	92	124	108	111
	Low	38	26	29	19	28	30	21	19	21	30	12	11
	High	183	123	179	128	146	181	158	188	168	335	199	211

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	75.140	63.800	118
Lowest yearly mean		44.220	1972
Highest yearly mean		82.810	1954
Lowest monthly mean	20.510	11.310	Aug 1955
Highest monthly mean	140.200	158.700	Dec 1954
Lowest daily mean	12.740	9.311	16 Aug 1955
Highest daily mean	368.700	1089.000	17 Aug 1970
Peak	480.800	1675.000	17 Aug 1970
10 %ile	151.000	118.800	127
50 %ile	62.390	48.720	128
95 %ile	17.850	19.660	91
Annual total (million cu m)	2370.00	2007.00	118
Annual runoff (mm)	828	702	118
Annual rainfall (mm)	1319	1089	121
[1941-70 rainfall average (mm)]		1168]	

Factors affecting flow regime

● Regulation for HEP.

Comment

Due to the effects of ice, river flows for the period 6th to 20th January are estimated.

Station description

Velocity-area station. 399 sq km Developed for hydro-electric power production

012001 Dee at Woodend**1982**Measuring authority: NERP
First year: 1929Grid reference: NO 635956
Level stn. (m OD) 70.49Catchment area (sq km): 1370.0
Max alt. (m OD) 1310**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	44 080	102 000	46 210	31 280	25 210	20 270	10 200	5 875	23 720	194 900	53 510	54 920
2	33 070	77 680	37 450	32 270	25 000	19 960	10 150	5 825	19 290	125 100	41 740	39 950
3	40 900	58 310	130 600	34 450	27 240	19 770	9 717	5 629	16 710	67 040	36 540	32 260
4	28 790	47 900	64 060	45 220	29 450	18 270	10 150	5 409	16 120	213 400	34 690	39 550
5	28 070	78 860	39 360	50 830	32 940	17 620	10 180	5 354	67 870	108 700	85 130	44 720
6	22 380	65 610	79 520	53 310	33 800	17 110	9 712	129 000	64 560	77 540	146 700	30 540
7	22 380	50 030	52 310	88 540	30 290	15 410	9 082	94 820	52 390	132 000	66 880	41 730
8	21 700	39 880	38 510	58 740	32 090	14 210	8 444	34 680	32 940	97 670	85 980	57 980
9	21 700	49 930	38 360	42 250	32 730	13 180	8 183	24 260	26 050	77 030	55 980	36 710
10	21 040	37 590	46 520	42 140	30 800	12 300	9 126	20 080	26 170	129 600	110 700	35 140
11	21 040	62 400	34 630	30 700	29 740	12 250	11 160	16 980	24 070	280 200	89 410	31 200
12	21 040	125 400	27 630	26 800	30 290	14 090	10 360	17 210	36 500	253 100	117 500	27 650
13	20 380	96 820	28 940	25 260	31 910	12 730	9 003	15 680	26 410	530 600	67 340	26 060
14	20 380	53 380	39 900	28 130	40 480	11 870	8 480	14 070	21 250	190 100	51 900	28 780
15	21 040	39 060	40 270	35 910	37 530	11 050	17 280	12 910	19 120	123 500	44 080	127 300
16	27 390	32 260	32 200	40 590	35 360	10 920	17 420	12 480	17 640	188 600	44 870	55 190
17	47 540	28 030	37 050	35 240	29 730	10 780	12 300	13 600	16 400	341 000	41 290	33 380
18	83 030	31 210	40 380	32 990	29 300	10 140	10 610	31 750	15 280	243 300	96 640	28 880
19	125 200	32 350	32 630	32 870	31 140	9 778	9 403	22 100	15 270	123 500	66 320	65 830
20	135 100	27 150	30 330	33 030	26 170	9 465	8 784	46 200	38 540	114 100	81 620	55 550
21	138 800	24 000	30 900	29 870	23 840	9 245	8 211	38 710	34 590	79 830	145 900	43 260
22	98 820	23 630	30 230	33 480	25 480	9 158	7 688	35 510	24 940	64 970	94 340	32 690
23	73 130	22 370	36 400	31 570	28 070	8 942	7 318	27 070	32 060	53 540	66 540	33 420
24	57 940	22 240	104 800	29 530	30 480	8 530	7 138	36 120	160 200	46 770	54 940	86 730
25	155 400	26 200	89 090	32 260	27 750	8 283	7 261	31 900	91 850	40 670	48 540	169 700
26	108 000	34 820	62 700	35 890	24 960	8 627	6 836	24 320	95 110	86 450	42 390	106 800
27	62 730	36 460	48 580	32 900	22 110	9 753	6 580	20 680	97 350	89 910	48 110	61 230
28	88 870	46 300	42 790	31 030	20 550	10 030	6 456	18 460	146 700	46 010	38 100	47 370
29	197 100	39 120	27 550	20 230	13 700	13 700	6 372	17 260	81 660	38 680	34 310	50 190
30	260 200	31 860	24 620	21 800	11 770	11 770	6 163	43 090	55 790	47 780	48 380	91 550
31	125 600	30 230		20 980			5 889	37 450		97 190		60 700
Average	69 900	48 920	47 210	36 980	28 830	12 640	9 213	27 870	46 550	138 200	67 340	54 100
Lowest	20 380	22 240	27 630	24 920	20 230	8 263	5 889	5 354	15 270	38 880	34 310	26 060
Highest	260 200	125 400	130 500	88 540	40 480	20 270	17 420	129 000	160 200	530 600	146 700	169 700
Peak flow	300 400	272 700	166 600	138 200	48 000	21 300	22 720	427 000	406 900	719 800	218 700	253 300
Day of peak	30	12	3	7	14	1	15	6	24	13	21	25
Monthly total (million cu m)	187.20	118.40	126.40	95.88	78.67	32.76	24.68	74.68	120.70	370.00	174.80	144.90
Runoff (mm)	137	86	92	70	56	24	18	54	88	270	127	106
Rainfall (mm)	114	73	109	41	65	41	42	152	174	310	166	130

Statistics of monthly data for previous record (Oct 1929 to Dec 1981)

Mean flows	Avg.	47 460	40 440	41 510	44 490	35 190	21 980	18 680	22 320	25 390	38 100	46 550	48 880
	Low	15 450	13 420	15 160	11 370	12 130	7 342	7 765	5 228	6 491	6 798	15 020	22 020
	(year)	1940	1947	1973	1938	1948	1940	1976	1955	1972	1972	1958	1976
	High	127 800	90 110	88 680	113 300	77 100	56 080	36 710	63 860	71 820	96 690	107 200	108 400
	(year)	1937	1945	1977	1947	1951	1948	1958	1948	1930	1976	1951	1954
Runoff	Avg	93	72	81	84	89	42	37	44	48	74	88	96
	Low	30	24	30	22	24	14	15	10	12	13	28	43
	High	250	159	173	214	151	106	72	125	136	189	203	212
Rainfall	Avg	117	76	73	70	80	67	92	95	92	117	112	118
	Low	36	10	16	12	28	16	24	13	13	8	22	43
	High	374	148	149	196	179	160	206	185	227	267	260	282

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	49 050	35 900	137
Lowest yearly mean		24 180	1973
Highest yearly mean		45 340	1860
Lowest monthly mean	9 213	5 228	Aug 1955
Highest monthly mean	138 200	127 800	Jan 1937
Lowest daily mean	5 354	3 536	27 Aug 1976
Highest daily mean	530 800	648 500	24 Jan 1937
Peak	719 800	1133 000	24 Jan 1937
10 %ile	103 700	71 330	146
50 %ile	32 970	26 170	131
95 %ile	8 354	8 575	97
Annual total (million cu m)	1547 00	1133 00	137
Annual runoff (mm)	1129	827	137
Annual rainfall (mm)	1417	1109	128
[1941-70 rainfall average (mm)]		1156]	

Factors affecting flow regime

● Natural to within 10% at 95 percentile flow

Comment
Due to the effects of ice, river flows for the period 6th to 19th January are estimated.

Station description

Velocity-area station. The lowest flows prior to 1971 are considered to be of limited accuracy.

015006 Tay at Ballathie**1982**Measuring authority: TRPB
First year: 1952Grid reference: NO 147367
Level stn. (m OD) 26.29Catchment area (sq km): 4587.1
Max alt. (m OD): 1214**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	156.900	357.400	293.200	133.000	88.120	62.280	41.890	27.670	98.770	685.200	294.600	285.900
2	153.600	321.200	270.400	182.300	102.500	60.530	45.310	27.560	89.610	601.700	258.200	234.900
3	267.200	280.100	567.300	182.100	150.100	58.670	44.150	27.360	87.570	418.300	238.800	214.000
4	228.400	241.700	414.200	199.900	173.700	56.640	43.510	26.790	79.110	521.300	229.400	222.400
5	183.100	304.700	299.700	207.500	158.000	58.680	43.830	31.110	161.500	436.000	358.100	220.400
6	137.800	275.700	392.700	183.100	163.900	63.900	43.510	185.700	177.700	303.300	503.600	193.700
7	135.300	234.900	353.500	246.000	125.400	60.160	42.680	164.100	164.500	257.400	381.700	213.700
8	154.800	252.500	297.300	209.100	100.000	53.760	41.150	56.970	121.700	246.600	418.300	312.600
9	117.800	291.600	309.900	168.800	100.200	54.240	42.060	46.570	114.800	198.300	306.900	253.600
10	105.200	285.200	384.700	148.800	95.970	57.550	41.570	42.390	150.000	201.800	394.700	251.100
11	99.710	308.500	328.100	139.800	106.800	60.830	41.950	40.800	170.500	308.900	440.100	207.300
12	88.920	425.200	310.200	138.500	116.700	61.320	39.650	42.740	226.500	388.900	529.600	191.800
13	94.000	426.600	289.300	137.000	108.300	58.910	38.000	47.870	185.100	679.100	405.200	181.200
14	81.810	313.800	358.100	146.500	109.500	54.180	36.830	38.110	178.700	398.100	360.600	183.400
15	75.980	266.800	369.400	142.700	96.040	53.610	40.180	49.570	160.000	330.800	324.500	513.600
16	74.820	236.100	321.000	133.000	90.330	50.220	42.210	38.150	139.700	423.800	308.900	388.100
17	123.600	214.800	308.400	128.600	89.770	45.520	38.590	47.280	124.400	632.100	332.700	298.500
18	189.100	194.100	281.000	121.500	86.420	44.020	36.720	102.100	104.900	627.400	469.500	274.700
19	359.400	175.400	253.700	122.400	69.840	43.440	35.900	75.370	106.100	456.100	470.500	446.400
20	423.700	143.900	224.000	117.800	62.950	43.020	34.570	85.270	194.400	484.500	503.800	454.400
21	532.600	136.700	209.400	105.400	60.280	42.270	33.700	88.640	209.100	382.500	654.600	375.700
22	447.700	134.900	221.100	108.600	65.920	41.330	32.670	93.230	154.700	337.100	600.600	298.900
23	319.100	124.800	227.400	112.500	68.350	40.570	31.790	99.770	181.100	292.200	541.100	261.900
24	240.100	123.000	298.500	100.100	72.560	41.800	32.870	112.900	332.600	282.300	460.500	386.700
25	435.700	175.300	317.500	94.230	81.530	40.100	32.320	112.400	341.700	277.200	398.600	510.300
26	392.500	208.900	276.500	102.500	80.130	40.130	29.710	122.700	347.400	384.800	356.900	491.900
27	266.300	204.200	250.700	115.400	74.280	40.850	28.920	108.600	442.100	376.100	324.500	431.900
28	319.400	238.000	234.700	100.800	72.370	43.080	29.280	99.070	594.800	280.000	307.700	361.400
29	458.200		216.700	89.380	67.260	46.700	29.550	101.300	444.700	241.900	280.800	345.900
30	583.800		176.900	91.440	65.420	42.720	28.770	133.000	350.900	259.200	290.300	433.400
31	419.300		160.900		63.360		28.280	106.800		389.800		373.700
Average	247.300	246.300	297.300	139.600	95.680	50.700	37.170	76.840	207.800	390.500	391.400	315.800
Lowest	74.820	123.000	160.900	89.380	60.280	40.100	28.280	26.790	79.110	198.300	229.400	181.200
Highest	583.800	426.600	567.300	246.000	173.700	63.900	45.310	185.700	594.800	685.200	654.600	513.600
Peak flow	630.000	628.300	644.800	359.100	182.500	66.840	47.170	428.400	788.700	991.300	781.500	697.500
Day of peak	30	12	3	7	4	6	2	6	28	1	21	25
Monthly total (million cu m)	662.30	595.80	796.30	361.90	256.30	131.40	99.54	205.80	538.50	1046.00	1015.00	846.10
Runoff (mm)	144	130	174	79	56	29	22	45	117	228	221	184
Rainfall (mm)	132	138	169	42	77	49	40	184	233	269	240	217

Statistics of monthly data for previous record (Oct 1982 to Dec 1981)

Mean flows	Avg	227.600	200.900	194.600	141.500	116.600	81.590	88.430	83.330	117.000	175.500	205.600	234.300
Low	92.910	52.560	69.380	75.210	45.500	42.080	37.470	14.690	40.650	39.680	89.180	112.800	
(year)	1963	1963	1953	1974	1980	1957	1977	1955	1955	1972	1972	1952	
High	515.800	353.700	424.800	231.200	186.800	190.400	111.500	161.100	195.900	323.400	398.700	491.400	
(year)	1974	1982	1967	1960	1984	1966	1970	1956	1980	1967	1954	1954	
Runoff	Avg	133	107	114	80	68	46	40	49	66	102	116	137
Low	54	28	41	43	27	24	22	9	23	23	50	68	
High	301	187	248	131	109	108	65	94	111	189	225	287	
Rainfall	Avg	150	102	113	74	98	86	97	104	127	143	142	161
Low	33	31	39	10	26	52	27	14	11	63	38	64	
High	393	182	224	150	200	181	144	183	266	254	281	271	

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	207.600	153.800	135
Lowest yearly mean		107.300	1955
Highest yearly mean		207.900	1954
Lowest monthly mean	37.170	Jul 14.690	Aug 1955
Highest monthly mean	391.400	Nov 515.800	Jan 1974
Lowest daily mean	28.790	4 Aug 11.460	6 Aug 1955
Highest daily mean	685.200	1 Oct 1223.000	27 Nov 1954
Peak	991.300	1 Oct 1570.000	30 Jan 1974
10 %ile	425.500	291.100	146
50 %ile	174.100	125.700	139
95 %ile	36.330	44.480	82
Annual total (million cu m)	6553.00	4854.00	135
Annual runoff (mm)	1429	1058	135
Annual rainfall (mm)	1790	1397	128
{1941-70 rainfall average (mm)}		1442}	

Factors affecting flow regime

● Regulation for MEP.

Station description

Velocity-area station. 1980 sq km developed for hydro-electric power production, 73 sq km for water supply purposes.

019001 Almond at Craigiehall**1982**Measuring authority: FRPB
First year: 1957Grid reference: NT 165752
Level stn. (m OD) 22.90Catchment area (sq km): 369.0
Max. alt. (m OD): 518**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6 843	5 288	5 248	2 118	1 576	1 681	2 295	1 271	1 833	4 803	15 930	5 662
2	9 561	5 165	4 960	2 043	4 066	1 654	1 942	1 283	1 541	6 499	9 143	4 879
3	119 100	4 337	4 212	1 915	5 477	1 834	1 678	1 166	1 398	3 941	6 229	4 456
4	90 150	3 996	4 221	2 625	3 528	1 913	1 763	1 102	2 736	3 663	5 173	4 440
5	30 480	5 601	5 562	2 505	3 638	1 749	1 851	1 057	21 690	3 513	8 783	4 304
6	12 910	7 020	7 432	4 601	7 149	1 836	1 580	1 381	13 790	6 344	18 820	3 838
7	8 466	8 369	8 327	14 370	4 174	1 671	1 381	1 222	8 770	6 097	8 324	19 730
8	7 106	14 800	16 110	9 493	2 738	1 530	1 347	1 242	4 313	5 711	7 721	31 300
9	5 795	25 860	27 220	5 120	2 303	1 446	1 332	1 230	2 689	4 096	6 061	12 590
10	6 191	17 160	14 210	3 629	2 033	1 405	1 303	1 068	4 727	6 934	17 610	14 710
11	5 350	9 581	8 776	3 174	1 846	4 489	1 293	1 068	4 076	12 930	16 740	9 778
12	4 346	7 386	7 058	2 775	1 753	5 927	1 317	1 169	2 602	10 260	17 890	6 769
13	4 030	5 708	5 284	2 570	1 664	2 435	1 271	1 195	1 931	36 910	9 322	5 296
14	3 793	4 827	4 421	2 413	1 673	1 767	1 736	1 067	1 578	16 790	7 729	10 240
15	3 544	3 968	3 852	2 333	1 609	2 721	12 840	1 135	1 389	7 629	6 860	25 270
16	6 257	3 569	3 448	2 139	1 731	4 805	7 217	1 846	1 203	8 454	14 080	18 740
17	23 870	3 385	3 343	2 039	1 695	2 348	3 028	2 342	1 115	10 410	28 100	11 190
18	23 370	3 379	3 317	1 982	1 775	1 773	2 025	2 659	1 022	15 130	33 020	9 325
19	14 610	3 170	2 998	1 980	1 838	1 540	1 676	3 282	1 116	10 850	50 740	91 280
20	11 610	2 807	2 713	1 888	1 738	1 459	1 474	2 812	1 813	25 390	19 280	47 860
21	14 000	2 656	2 606	1 792	1 821	1 412	1 382	2 207	1 893	9 546	25 760	18 310
22	13 350	2 469	2 477	1 778	3 198	1 299	1 315	3 220	1 345	6 514	22 850	9 837
23	8 831	2 458	2 475	1 839	2 770	1 276	1 260	2 679	1 200	5 254	84 440	7 831
24	7 550	2 498	2 511	1 735	2 314	1 273	1 190	2 985	4 076	4 682	38 480	10 210
25	11 160	2 407	2 358	1 685	2 051	2 492	1 184	3 114	5 383	4 138	28 440	8 553
26	12 040	2 401	2 352	1 597	2 138	8 167	1 029	2 740	3 132	4 159	15 270	7 725
27	7 180	2 330	2 285	1 569	2 011	4 569	1 007	2 056	20 230	3 783	10 890	12 120
28	6 456	3 132	3 359	1 611	1 906	8 154	1 000	1 608	17 510	3 194	9 744	9 291
29	7 491		7 525	1 596	1 810	4 861	0 996	3 445	8 739	2 912	8 205	7 197
30	7 652		28 910	1 630	1 753	2 625	0 990	3 713	5 421	19 330	6 873	7 390
31	6 162		15 790		1 758		0 989	2 074		18 290		8 562
Average	16 110	5 904	6 882	2 958	2 501	2 664	2 023	1 950	5 009	9 295	18 550	14 470
Lowest	3 544	2 330	2 285	1 569	1 576	1 273	0 989	1 057	1 022	2 912	5 173	3 838
Highest	119 100	25 860	27 220	14 370	7 149	8 154	12 840	3 713	21 690	36 910	84 440	91 280
Peak flow	151 600	44 150	43 900	20 900	7 918	14 050	20 280	4 818	46 980	57 580	153 400	181 800
Day of peak	3	9	9	7	6	28	15	30	27	13	23	19
Monthly total (million cu m)	43.14	14.28	16.43	7.67	6.70	6.90	5.42	5.22	12.98	24.90	48.08	38.77
Runoff (mm)	117	39	50	21	18	18	15	14	35	67	130	105
Rainfall (mm)	109	44	80	33	63	89	47	88	110	120	149	116

Statistics of monthly data for previous record (Jan 1957 to Dec 1981)

	Mean	Avg	8 229	7 362	5 977	4 047	2 993	2 247	2 104	3 065	4 238	5 814	9 079	8 524
Flows	Low	3 574	1 782	1 918	1 409	1 091	0 817	0 951	0 922	0 668	0 668	0 668	1 862	3 016
	(year)	1983	1983	1973	1974	1961	1961	1960	1981	1959	1972	1972	1972	1975
	High	15 810	13 740	14 300	8 374	11 170	8 572	9 224	8 434	12 680	15 120	21 680	16 280	16 280
	(year)	1975	1977	1978	1972	1968	1966	1958	1966	1962	1981	1963	1974	1974
Runoff	Avg	80	49	43	28	22	15	15	22	30	42	64	62	
	Low	26	12	14	10	8	6	7	7	5	5	13	22	
	High	115	90	104	59	81	60	87	61	89	110	152	118	
Rainfall	Avg	74	58	58	51	62	61	74	83	85	85	89	77	
	Low	28	18	22	8	16	24	25	19	14	23	41	21	
	High	145	107	116	88	123	136	165	142	159	177	190	154	

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	7 372	5 295	139
Lowest yearly mean		2 890	1973
Highest yearly mean		8 888	1979
Lowest monthly mean	1 950	0 668	Sep 1959
Highest monthly mean	18 550	21 680	Nov 1963
Lowest daily mean	0 989	0 241	9 Oct 1959
Highest daily mean	119 100	120 400	22 Nov 1969
Peak	181 800	180 600	31 Oct 1977
10 %ile	16 600	12 080	137
50 %ile	3 674	2 690	137
95 %ile	1 180	0 647	139
Annual total (million cu m)	232.50	187.10	139
Annual runoff (mm)	830	453	139
Annual rainfall (mm)	1046	857	122
[1941-70 rainfall average (mm)]		918]	

Station description
Velocity-area station**Factors affecting flow regime**

- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from effluent returns.

021009 Tweed at Norham**1982**Measuring authority: TWRP
First year: 1959Grid reference: NT 898477
Level stn. (m OD) 4.27Catchment area (sq km): 4390.0
Max alt. (m OD): 839

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	149.500	101.400	119.300	39.480	17.790	16.320	39.680	15.860	20.110	80.210	147.400	88.590
2	181.900	96.470	102.200	38.890	25.110	16.750	36.560	16.220	16.850	172.400	120.600	77.350
3	927.200	84.770	189.900	38.340	85.730	17.560	30.490	16.110	14.840	82.580	91.920	70.920
4	1138.000	74.250	101.900	34.880	58.100	18.420	27.180	15.060	14.470	77.680	79.180	65.790
5	489.700	109.500	76.880	34.580	40.240	16.190	24.910	14.270	27.540	82.320	75.740	69.420
6	288.800	111.700	105.800	35.280	38.010	16.680	25.360	14.740	68.950	116.400	139.200	60.620
7	194.800	122.000	104.200	39.500	38.180	16.780	25.150	15.800	49.510	127.700	96.190	74.680
8	161.000	170.000	80.510	52.010	32.570	15.320	22.420	14.590	36.980	122.500	97.020	379.300
9	141.600	295.200	156.000	41.130	29.700	14.350	20.880	13.980	28.840	91.710	83.550	192.400
10	128.000	347.800	298.000	35.440	26.730	14.090	19.600	13.500	22.720	95.310	111.500	202.800
11	130.600	244.300	153.300	32.260	24.400	14.470	18.830	13.210	26.240	121.200	125.600	147.500
12	123.800	228.300	258.700	30.070	22.850	28.530	18.960	13.870	23.240	120.000	256.600	113.300
13	116.700	282.900	164.400	28.800	21.820	28.370	18.500	14.450	23.370	181.500	153.800	101.500
14	110.400	170.800	174.000	27.440	21.440	20.560	17.440	14.540	19.850	209.000	119.500	119.200
15	104.200	127.300	212.700	26.810	19.770	18.330	100.800	13.570	18.270	127.200	100.700	268.100
16	120.700	104.500	173.100	25.680	19.410	28.940	206.900	13.120	17.400	104.900	146.100	181.100
17	245.300	91.350	154.400	24.830	19.060	28.390	90.830	14.110	18.190	121.200	153.700	133.500
18	307.400	83.770	124.500	24.240	18.280	22.330	58.410	14.040	15.430	241.200	206.200	107.400
19	290.800	76.670	105.400	23.500	17.970	19.740	45.030	16.180	15.150	145.400	295.400	502.100
20	269.900	68.110	98.830	22.920	18.020	18.460	36.840	14.860	19.530	207.200	239.000	423.300
21	300.500	60.990	88.080	22.480	17.370	17.610	31.720	16.090	46.740	144.800	380.700	252.400
22	345.200	57.840	79.330	21.760	18.000	16.680	27.950	16.770	25.710	115.400	301.300	159.700
23	233.700	54.600	70.710	20.840	21.810	16.460	25.050	20.930	20.880	99.220	441.000	123.800
24	170.700	51.300	64.640	20.770	27.930	16.590	23.600	18.220	22.830	85.070	480.900	154.200
25	187.600	49.250	60.870	19.850	22.230	16.580	22.410	24.640	80.760	78.370	316.500	135.100
26	223.000	53.700	55.420	19.360	22.970	126.800	20.830	20.040	47.830	77.280	204.500	133.900
27	162.000	60.170	50.720	18.890	21.080	128.900	19.240	17.840	99.120	76.080	158.400	122.200
28	132.600	52.950	47.790	18.930	18.500	87.860	18.420	16.490	122.300	60.840	130.900	116.500
29	125.000	45.490	19.070	17.780	17.780	78.940	17.580	20.920	109.600	54.690	112.600	99.220
30	128.000	41.920	17.950	17.170	17.170	49.460	16.600	33.280	68.690	106.600	98.900	89.820
31	113.900	39.420	16.710	16.710	16.710	15.850	24.980	135.600	135.600	135.600	93.240	93.240
Average	249.700	122.600	116.000	28.480	26.330	31.480	36.280	18.850	37.920	118.100	181.800	158.700
Lowest	104.200	49.250	39.420	17.650	16.710	14.090	15.850	13.120	14.470	54.690	75.740	60.620
Highest	1138.000	347.800	298.000	52.010	85.730	128.900	206.900	33.280	122.300	241.200	490.900	502.100
Peak flow	1518.000	431.900	429.400	56.690	111.000	213.000	278.600	52.130	177.500	351.700	778.200	888.700
Day of peak	4	12	10	8	3	26	16	29	28	18	23	19
Monthly total (million cu m)	668.80	296.50	310.70	73.78	70.52	81.60	97.12	45.12	98.30	316.40	471.10	419.80
Runoff (mm)	152	68	71	17	16	19	22	10	22	72	107	96
Rainfall (mm)	127	76	85	20	63	106	62	70	101	150	143	128

Statistics of monthly data for previous record (Oct 1962 to Dec 1981)

Mean flows	Avg	113.500	100.200	103.300	65.450	55.800	38.470	29.720	41.540	54.110	79.310	109.600	109.300
	Low	50.320	37.180	26.290	25.180	17.950	15.550	15.920	9.883	10.990	10.180	24.710	40.700
	(year)	1973	1983	1973	1974	1980	1974	1978	1978	1972	1972	1973	1975
	High	204.000	173.300	236.400	142.200	153.300	66.210	67.680	116.500	125.600	178.300	271.700	197.900
	(year)	1975	1978	1983	1979	1987	1981	1985	1988	1985	1967	1963	1979
Runoff:	Avg.	69	56	63	39	34	22	18	25	32	48	65	67
	Low	31	20	16	15	11	9	10	6	6	6	15	25
	High	124	95	144	84	94	39	41	71	74	108	160	121
Rainfall:	Avg.	90	66	78	59	75	67	73	90	94	89	99	86
	Low	45	23	21	12	22	25	24	21	19	25	29	23
	High	158	125	138	84	181	129	140	188	164	163	220	175

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	93.540	74.770	125
Lowest yearly mean		33.910	1973
Highest yearly mean		102.400	1963
Lowest monthly mean	16.850	9.883	Aug 1978
Highest monthly mean	249.700	271.700	Nov 1983
Lowest daily mean	13.120	7.427	28 Aug 1978
Highest daily mean	1138.000	1042.000	6 Mar 1983
Peak	1518.000	1483.000	31 Oct 1977
10 %ile	206.400	158.300	130
50 %ile	59.700	51.000	117
95 %ile	14.940	14.130	108
Annual total (million cu m)	2950.00	2380.00	125
Annual runoff (mm)	672	537	125
Annual rainfall (mm)	1131	966	117
[1941-70 rainfall average (mm)]		1039]	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Abstraction for public water supplies.

Station description
Velocity-area station

022001 Coquet at Morwick**1982**Measuring authority: NWA
First year: 1966Grid reference: NU 234044
Level stn. (m OD): 5.25Catchment area (sq km): 569.8
Max alt. (m OD): 776**Daily mean gauged discharges (cubic metres per second) -- -- -- --**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20 270	9 226	6 041	3 967	2 162	1 475	2 896	1 481	1 407	2 111	15 540	8 949
2	35 130	8 070	7 307	3 982	2 389	1 501	2 444	1 497	1 407	3 788	10 820	6 143
3	203 200	7 235	14 040	3 539	6 182	1 511	2 185	1 457	1 407	3 132	7 642	5 615
4	155 600	6 647	7 116	3 331	4 022	1 454	2 010	1 379	1 408	3 646	6 669	5 616
5	51 530	6 447	5 588	3 350	2 895	1 463	1 891	1 314	5 240	5 029	9 103	6 485
6	26 710	7 006	5 208	3 895	2 750	1 835	1 822	1 297	13 920	37 460	10 260	5 732
7	15 700	6 701	4 927	4 570	2 689	1 506	1 777	1 403	7 004	23 620	7 327	10 970
8	13 580	6 044	4 787	7 317	2 489	1 430	1 697	1 426	4 137	17 710	7 401	49 400
9	11 520	8 891	5 833	4 810	2 336	1 382	1 730	1 346	2 773	13 250	7 916	27 550
10	8 309	14 000	14 760	4 073	2 267	1 404	1 813	1 166	2 235	16 500	9 084	34 390
11	8 954	8 887	8 153	3 564	2 164	1 556	1 685	1 166	2 015	33 340	12 810	23 840
12	13 340	7 451	11 330	3 275	2 054	2 096	1 643	1 166	1 843	27 200	30 430	13 410
13	9 798	6 951	8 307	3 120	1 899	2 251	1 591	1 474	1 744	29 140	14 100	10 280
14	7 465	6 067	7 538	2 992	1 936	1 802	1 524	1 559	1 839	25 810	10 260	9 762
15	7 854	5 433	14 880	2 856	1 893	1 688	6 146	1 532	1 525	12 230	8 310	13 260
16	9 136	5 190	12 730	2 769	1 930	2 975	16 260	1 849	1 474	9 358	8 870	22 430
17	9 638	5 008	12 570	2 735	1 933	2 626	5 877	2 528	1 426	12 800	9 105	13 790
18	31 860	5 211	9 811	2 709	1 878	2 085	3 582	2 015	1 401	10 750	11 890	10 370
19	50 140	5 180	7 885	2 638	1 844	1 879	2 704	1 713	1 417	8 818	8 684	8 193
20	50 700	4 832	8 653	2 573	1 770	1 732	2 236	1 674	1 494	12 590	7 221	28 670
21	52 470	4 511	7 328	2 485	1 812	1 633	1 948	1 674	1 493	9 339	28 940	44 920
22	46 320	4 304	6 347	2 437	2 054	1 575	1 794	1 674	1 418	7 270	35 320	27 710
23	26 500	4 145	5 527	2 383	2 055	1 602	1 727	1 674	1 385	6 143	37 300	14 460
24	18 370	4 026	5 111	2 326	1 904	1 618	1 681	1 674	1 530	5 454	40 270	9 982
25	24 160	3 920	4 791	2 309	1 802	2 254	1 603	1 674	1 891	5 046	29 130	10 190
26	24 430	4 501	4 425	2 274	1 833	20 980	1 517	1 674	1 949	4 685	16 500	11 770
27	19 610	4 850	4 157	2 247	1 756	8 669	1 460	1 674	1 964	4 362	12 340	10 960
28	14 610	4 368	4 041	2 188	1 653	9 054	1 438	1 674	3 635	3 905	10 330	11 040
29	12 940		4 087	2 143	1 809	6 321	1 441	1 674	3 476	3 616	8 879	10 680
30	11 320		3 929	2 154	1 544	3 935	1 438	1 674	2 649	4 587	7 852	9 063
31	10 530		3 639		1 511		1 389	1 621		7 609		8 020
Average	32 310	6 239	7 446	3 167	2 229	3 110	2 611	1 574	2 617	11 940	14 670	15 570
Lowest	7 465	3 920	3 639	2 143	1 511	1 382	1 389	1 166	1 385	2 111	6 669	5 615
Highest	203 200	14 000	14 880	7 317	6 182	20 980	16 260	2 528	13 920	37 460	40 220	49 400
Peak flow	289 700	21 530	23 840	10 130	8 578	29 880	22 400	2 653	23 780	66 580	57 750	58 190
Day of peak	4	10	3	8	3	26	16	16	6	11	23	20
Monthly total (million cu m)	88 55	15 09	19 94	8 21	5 97	8 06	6 99	4 22	6 78	31 99	38 03	41 70
Runoff (mm)	152	26	35	14	10	14	12	7	17	56	67	73
Rainfall (mm)	117	29	58	18	46	88	47	70	69	115	90	85

Statistics of monthly data for previous record (Sep 1968 to Dec 1981)

Mean flows	Avg	14 860	13 930	13 540	7 746	8 068	3 591	3 229	3 558	4 279	8 220	10 610	12 850
	Low	5 421	2 673	1 730	2 928	2 155	1 141	1 549	1 851	1 418	1 083	1 926	4 563
	(year)	1973	1973	1973	1974	1974	1970	1976	1976	1972	1972	1973	1971
	High	27 680	26 350	31 390	13 470	14 190	6 355	7 969	9 386	14 170	26 860	21 860	33 340
	(year)	1969	1978	1979	1979	1989	1969	1968	1971	1968	1976	1967	1978
Runoff	Avg	70	60	64	35	29	16	15	17	19	39	48	60
	Low	25	11	8	13	10	5	7	8	6	5	9	21
	High	130	112	148	61	67	29	37	44	64	126	99	157
Rainfall	Avg	86	65	81	51	68	55	68	70	75	77	84	83
	Low	38	15	18	8	18	8	19	18	15	19	19	31
	High	140	120	144	76	127	129	101	132	215	176	165	251

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	8 674	8 521	102
Lowest yearly mean		3 716	1973
Highest yearly mean		11 380	1969
Lowest monthly mean	1 574	1 083	Oct 1972
Highest monthly mean	32 310	33 340	Dec 1978
Lowest daily mean	1 166	0 721	20 Jun 1970
Highest daily mean	203 200	173 000	3 Mar 1981
Peak	289 700	243 600	2 Mar 1981
10 %ile	18 760	18 270	103
50 %ile	4 200	4 788	88
95 %ile	1 424	1 335	107
Annual total (million cu m)	273 50	268 90	102
Annual runoff (mm)	480	472	102
Annual rainfall (mm)	832	883	96
[1941-70 rainfall average (mm)]		880]	

Factors affecting flow regime

● Natural to within 10% at 95 percentile flow

Station description

Velocity-area station. Informal flat V weir installed 1976

023006 South Tyne at Featherstone**1982**Measuring authority: NWA
First year: 1966Grid reference: NY 672611
Level stn. (m OD) 131.70Catchment area (sq km): 321.9
Max alt. (m OD): 893**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7.040	10.440	17.600	3.943	1.629	1.408	4.026	1.376	4.894	19.180	21.640	5.620
2	115.600	8.042	28.080	3.398	16.290	2.388	3.217	1.341	3.614	13.730	7.619	5.123
3	174.000	6.450	13.520	3.193	12.160	3.394	3.005	1.272	3.134	6.319	5.574	4.829
4	77.770	5.814	13.770	3.408	8.134	2.033	2.829	1.223	3.066	6.837	5.521	6.429
5	26.650	27.220	7.056	3.227	5.385	1.841	2.813	1.222	3.645	23.810	6.253	7.948
6	12.710	17.800	13.220	3.343	3.934	1.707	2.419	1.220	8.452	67.210	6.106	5.695
7	8.908	15.990	9.102	5.936	3.158	1.798	2.152	1.215	9.148	20.620	4.707	40.920
8	7.105	33.720	8.044	6.676	2.741	1.893	2.118	1.267	4.543	16.520	4.527	68.230
9	5.715	32.530	41.150	4.305	2.488	1.805	1.907	1.249	3.378	14.460	6.996	25.370
10	4.450	19.140	28.900	4.039	2.231	1.804	1.770	1.178	3.167	19.630	24.120	18.840
11	3.516	21.190	25.540	3.259	1.987	1.777	1.716	1.162	3.228	13.640	15.840	9.801
12	3.552	14.050	46.550	2.899	1.753	1.901	1.599	1.336	2.703	14.490	38.090	7.164
13	3.307	17.160	28.280	2.659	1.584	1.841	1.521	1.858	2.417	16.020	14.190	6.197
14	2.983	14.440	60.460	2.478	1.512	1.443	2.711	1.749	2.201	11.930	11.400	23.560
15	2.809	8.389	33.790	2.362	1.442	1.472	29.910	1.547	2.051	6.974	38.630	62.290
16	14.940	6.331	25.760	2.297	1.371	1.727	13.920	4.584	1.951	10.690	30.940	15.830
17	22.770	5.745	20.510	2.218	1.303	1.598	5.409	7.101	1.875	11.030	62.540	10.150
18	19.880	5.370	14.520	2.137	1.287	1.598	3.561	16.800	1.821	18.600	37.430	7.694
19	15.320	5.082	12.680	2.096	1.347	5.795	2.733	23.000	1.866	15.530	15.040	77.410
20	12.930	4.115	13.730	2.037	1.413	14.570	2.269	25.780	3.760	59.380	18.550	43.930
21	29.200	3.872	11.000	1.742	1.511	3.409	1.980	18.080	3.515	12.200	65.620	20.830
22	21.900	3.779	13.500	1.742	2.396	3.161	1.810	27.370	2.703	7.989	62.350	9.264
23	15.570	3.518	8.883	1.724	2.327	7.777	1.757	11.510	8.429	6.249	54.460	8.247
24	11.120	3.453	7.844	1.724	1.901	4.779	1.686	24.430	15.530	5.580	48.810	32.710
25	47.380	3.846	6.252	1.707	8.514	9.411	1.598	12.270	7.958	5.079	26.240	20.900
26	25.800	4.977	5.074	1.707	3.882	34.670	1.535	9.649	11.050	4.941	13.750	30.740
27	11.840	4.999	4.435	1.689	2.423	25.970	1.448	5.931	21.390	4.486	9.933	18.540
28	13.670	17.920	4.147	1.689	2.611	28.430	1.395	4.330	32.880	3.846	11.790	12.390
29	19.580		3.927	1.671	2.053	10.380	1.382	5.966	15.180	3.501	8.168	9.339
30	25.160		3.610	1.671	1.712	5.680	1.338	20.920	8.997	6.165	6.577	7.568
31	20.310		3.533		1.510		1.354	8.827		8.031		7.469
Average	25.270	11.610	17.080	2.766	3.353	6.248	3.512	7.889	6.552	14.670	22.710	20.390
Lowest	2.809	3.453	3.533	1.671	1.267	1.408	1.338	1.162	1.821	3.501	4.527	4.829
Highest	174.000	33.720	60.460	6.676	16.290	34.670	29.910	27.370	32.880	67.210	65.620	77.410
Peak flow	292.100	63.680	180.300	11.310	56.270	59.020	58.050	56.270	81.070	233.000	153.400	223.400
Day of peak	2	8	11	7	2	20	15	20	28	5	22	19
Monthly total (million cu m)	67.88	28.10	45.75	7.17	8.88	18.19	9.41	21.13	18.98	39.28	58.87	54.61
Runoff (mm)	210	87	142	22	28	50	29	66	53	122	183	170
Rainfall (mm)	191	79	136	21	69	129	67	164	90	159	197	179

Statistics of monthly data for previous record (Oct 1966 to Dec 1981—incomplete or missing months total 0.2 years)

Mean flows	Avg	15.100	11.870	13.110	8.786	6.277	4.937	4.787	6.154	9.423	12.220	15.780	14.120
	Low	10.540	5.122	5.880	1.850	1.311	1.465	1.329	0.960	1.477	1.181	6.793	5.110
	(year)	1970	1968	1975	1974	1980	1978	1976	1976	1972	1972	1968	1971
	High	25.510	19.760	30.210	16.210	12.250	12.740	9.385	13.140	17.780	30.330	22.890	28.810
	(year)	1975	1974	1979	1979	1967	1980	1968	1967	1968	1967	1974	1974
Runoff	Avg	126	90	109	71	52	40	40	51	76	102	127	117
	Low	88	40	49	15	11	12	11	8	12	10	55	43
	High	212	148	251	131	102	103	78	109	143	252	184	240
Rainfall	Avg	128	86	114	73	85	88	97	104	129	131	143	120
	Low	74	31	44	11	40	44	43	25	40	27	63	42
	High	213	166	199	133	178	215	141	182	239	331	240	215

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	11.860	10.210	116
Lowest yearly mean		7.630	1971
Highest yearly mean		12.920	1979
Lowest monthly mean	2.768	0.960	Aug 1976
Highest monthly mean	25.270	30.330	Oct 1967
Lowest daily mean	1.162	0.713	26 Aug 1976
Highest daily mean	174.000	168.200	23 Mar 1968
Peak	292.100	283.700	10 Dec 1980
10 %ile	27.650	23.810	
50 %ile	5.833	5.125	116
95 %ile	1.386	1.376	101
Annual total (million cu m)	374.00	322.20	116
Annual runoff (mm)	1162	1001	116
Annual rainfall (mm)	1481	1296	114
[1941-70 rainfall average (mm)]		1441]	

Factors affecting flow regime

● Natural to within 10% at 95 percentile flow.

Station description

Compound Crump weir. Two crests 15.2 m and 29.6 m broad

025001 Tees at Broken Scar**1982**Measuring authority NWA
First year 1956Grid reference: NZ 259137
Level stn (m OD) 37.20Catchment area (sq km) 818.4
Max alt (m OD) 893**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25 270	20 400	27 670	6 313	3 383	6 913	4 300	3 928	3 244	7 406	17 090	18 150
2	117 300	13 960	36 440	5 496	25 780	6 813	3 700	3 852	2 273	21 740	10 800	17 160
3	391 500	11 580	34 470	3 422	23 280	3 785	3 596	3 614	2 738	6 180	8 389	15 020
4	189 800	10 490	28 490	3 988	10 830	7 181	3 289	3 033	3 034	6 805	11 750	15 200
5	84 700	17 770	13 870	4 389	7 437	4 029	3 563	3 921	3 302	10 800	11 590	23 560
6	42 100	24 230	17 120	5 036	4 483	3 545	4 032	3 627	4 481	80 240	17 490	15 940
7	26 850	18 450	16 630	4 882	3 491	3 638	3 816	3 417	9 721	23 780	11 390	40 190
8	22 920	23 060	11 440	10 930	3 452	4 348	3 692	3 498	4 211	18 200	11 730	74 980
9	19 590	31 590	48 630	5 338	3 288	3 728	3 731	3 604	3 134	12 850	19 150	40 070
10	16 380	18 870	67 390	4 830	2 537	3 949	3 736	3 492	2 849	17 880	31 270	43 100
11	15 960	15 180	27 090	3 941	3 324	3 837	3 494	3 014	2 848	14 330	22 190	23 020
12	14 790	13 990	69 030	3 455	3 635	3 754	2 917	3 858	2 667	16 970	83 100	18 190
13	13 850	16 210	26 700	3 763	3 295	3 443	3 453	3 980	2 733	26 750	25 610	17 180
14	8 963	18 490	82 850	4 019	3 380	3 205	4 284	3 807	3 462	17 920	23 320	22 170
15	9 129	11 360	89 410	3 955	3 303	2 651	11 920	4 525	3 533	12 490	26 990	94 630
16	13 200	9 183	34 900	3 854	3 358	4 115	28 710	5 025	3 520	12 290	64 400	37 660
17	43 060	8 237	28 300	3 780	2 822	3 082	7 362	5 047	3 753	24 720	78 800	22 410
18	59 350	7 723	23 480	3 878	3 398	3 449	4 590	23 150	4 937	16 830	78 400	18 320
19	46 820	7 376	21 860	3 841	3 131	3 555	3 952	9 723	5 125	14 200	45 690	124 300
20	38 740	6 387	30 490	3 758	3 074	5 053	3 663	23 280	7 815	47 060	31 410	131 900
21	58 120	5 757	22 590	3 846	2 983	5 055	3 655	13 770	8 360	18 040	149 500	62 030
22	49 360	5 155	22 470	3 525	4 182	7 825	2 830	11 380	4 775	12 940	99 370	26 860
23	34 280	3 977	18 640	3 465	5 987	28 460	2 921	9 725	4 896	10 860	98 670	21 090
24	21 200	3 835	14 430	2 768	4 003	10 980	2 856	12 590	17 820	9 788	94 580	53 240
25	27 150	4 079	12 630	3 348	7 745	18 960	2 738	8 385	14 370	8 794	71 660	44 640
26	39 170	5 143	9 881	3 338	5 524	71 590	2 901	4 874	5 184	7 346	36 170	39 520
27	19 670	7 551	7 853	3 443	2 662	33 650	3 179	3 896	13 430	7 468	27 760	35 210
28	18 980	8 475	7 856	3 431	2 876	21 220	3 207	3 484	19 420	6 030	29 800	24 290
29	25 080		6 004	3 351	2 660	10 890	3 210	3 720	16 820	5 595	26 580	20 480
30	28 230		5 533	3 433	3 445	6 378	3 613	11 540	7 177	5 656	21 850	18 960
31	35 840		5 008		3 552		3 805	8 128		8 066		18 500
Average	50 240	12 450	26 720	4 227	5 358	9 989	4 733	6 888	6 387	16 450	42 880	37 980
Lowest	8 963	3 935	5 008	2 768	2 537	2 651	2 738	3 014	2 273	5 595	8 389	15 020
Highest	391 500	31 590	69 410	10 930	25 780	71 590	28 710	23 280	19 420	80 240	149 500	131 900
Peak flow	590 800	61 080	161 100	15 930	104 500	113 700	71 020	61 690	68 430	149 800	284 100	315 100
Day of peak	3	8	9	8	2	26	15	18	24	6	21	19
Monthly total (million cu m)	134.60	30.12	71.58	10.96	14.35	25.84	12.68	18.39	16.58	44.06	111.20	101.80
Runoff (mm)	164	37	87	13	18	32	15	22	20	54	136	124
Rainfall (mm)	137	44	110	22	52	148	56	98	78	106	190	131

Statistics of monthly data for previous record (Oct 1956 to Dec 1981)

Mean flows	Avg	27 510	23 530	23 030	18 420	10 080	6 078	6 298	9 665	11 200	17 800	22 070	26 990
	Low	2 906	2 804	5 482	2 539	2 008	0 502	1 794	0 458	0 638	2 707	4 060	5 778
	(year)	1963	1963	1975	1957	1959	1957	1969	1959	1959	1969	1958	1971
	High	48 070	51 540	68 660	60 870	27 020	15 270	15 090	24 830	24 350	53 940	51 580	50 040
	(year)	1962	1966	1979	1977	1967	1972	1961	1957	1968	1967	1963	1979
Runoff	Avg	90	70	75	58	33	19	21	37	35	58	70	88
	Low	10	8	18	8	7	2	6	2	2	9	13	19
	High	157	152	225	193	88	48	49	81	77	177	163	164
Rainfall	Avg	116	89	95	76	80	74	86	100	100	103	111	120
	Low	51	23	29	10	18	22	32	23	19	27	25	43
	High	183	175	224	150	167	182	150	190	222	226	221	268

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre 1982
Mean flow (m ³ s ⁻¹)	18 770	16 870	111
Lowest yearly mean		9 383	1973
Highest yearly mean		23 220	1979
Lowest monthly mean	4 227	0 458	Aug 1959
Highest monthly mean	50 240	68 660	Mar 1979
Lowest daily mean	2 273	0 023	16 Oct 1959
Highest daily mean	391 500	317 200	6 Mar 1963
Peak	590 800	679 300	23 Mar 1968
10 %ile	41 060	42 950	98
50 %ile	8 680	7 697	113
95 %ile	2 950	1 195	247
Annual total (million cu m)	591.90	532.40	111
Annual runoff (mm)	723	651	111
Annual rainfall (mm)	1172	1150	102
[1941-70 rainfall average (mm)]		1226]	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Abstraction for public water supplies.
- Augmentation from surface water and/or groundwater.

Station description

Compound Crump weir 64 m broad with two low sills each 4.6 m broad. Excess flows from Cocker Beck (R Skerne) diverted into catchment via Baydale Beck. See 025010 Mowden Bridge

027002 Wharfe at Flint Mill Weir**1982**Measuring authority: YWA
First year: 1937Grid reference: SE 422473
Level sin. (m OD) 13.67Catchment area (sq km): 758.9
Max alt. (m OD): 704

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23 470	13 130	19 900	6 351	2 774	4 324	10 360	2 036	8 895	9 100	13 790	11 790
2	57 480	11 960	13 050	6 029	2 933	5 166	8 066	2 122	6 817	37 900	14 390	10 840
3	233 500	9 878	54 670	5 709	23 750	3 545	6 821	2 059	5 691	15 980	14 650	9 744
4	181 800	8 548	26 500	5 551	8 868	2 521	5 951	2 891	5 157	11 170	25 140	9 323
5	119 500	19 700	16 610	5 561	6 382	2 182	5 512	2 975	5 144	15 050	22 570	29 240
6	53 300	25 100	19 070	5 341	5 103	10 740	5 067	2 153	4 945	44 720	35 470	15 710
7	30 350	22 900	28 530	5 813	3 805	10 090	4 208	1 897	6 842	18 800	16 920	32 320
8	21 540	15 190	15 360	8 322	3 467	4 385	3 644	1 728	8 253	17 050	16 790	76 080
9	16 780	38 080	14 040	6 854	3 313	2 730	3 920	1 571	5 553	11 540	30 270	51 130
10	13 380	19 970	59 420	5 534	3 263	2 654	3 643	1 531	4 329	9 407	20 140	45 260
11	11 970	15 220	30 170	5 022	3 029	2 863	3 257	1 454	3 604	8 386	24 260	25 450
12	9 720	15 630	49 470	4 555	2 882	4 062	4 412	1 443	3 306	7 544	61 330	18 670
13	8 494	13 010	27 720	4 270	2 679	3 644	2 813	1 553	2 955	14 200	32 950	14 840
14	7 090	11 660	65 710	4 204	2 652	2 632	2 517	2 117	2 764	12 030	33 010	13 320
15	7 346	10 080	111 000	4 036	2 552	2 415	4 594	2 478	2 589	8 526	24 270	91 780
16	8 777	8 308	43 390	3 902	2 545	2 703	7 047	4 322	2 378	7 326	67 390	51 750
17	9 460	7 457	34 710	3 742	2 449	2 650	5 339	5 587	2 349	20 880	38 940	26 330
18	13 280	7 101	28 330	3 606	2 370	3 946	3 646	75 100	2 224	12 200	53 550	18 330
19	13 060	6 695	22 460	3 554	2 413	6 263	3 084	31 140	2 428	9 067	48 040	73 860
20	14 650	6 431	24 280	3 453	2 223	5 074	2 856	27 270	3 714	45 130	41 340	93 900
21	18 790	6 021	22 190	3 424	2 268	7 321	2 699	17 280	11 860	24 110	80 990	79 340
22	24 400	5 554	19 870	3 324	2 436	51 990	2 644	31 240	8 045	13 610	62 690	34 610
23	28 660	5 344	14 600	3 220	2 950	55 040	2 582	23 990	7 050	10 130	65 230	22 300
24	17 210	5 102	11 860	3 191	5 087	27 230	2 481	27 220	15 360	8 350	58 250	26 300
25	14 350	5 109	10 270	3 060	3 392	42 690	2 383	26 980	28 090	14 070	58 890	27 520
26	43 220	5 610	9 030	2 983	8 715	66 640	2 262	17 010	10 700	9 635	36 030	59 940
27	22 610	11 230	8 220	2 938	5 546	34 250	2 140	14 530	20 160	10 010	25 390	50 250
28	15 360	8 585	7 617	2 835	3 551	37 630	2 096	17 330	29 770	8 129	20 100	29 240
29	14 820	7 047	2 597	2 597	4 682	28 330	2 108	9 098	28 970	6 923	16 150	21 160
30	17 510	6 835	2 774	3 056	3 056	15 470	1 974	17 600	12 960	6 361	13 480	17 800
31	14 790	6 521		2 479			1 975	14 290		5 988		25 470
Average	34 340	12 090	26 720	4 390	4 310	14 870	3 939	12 580	8 763	14 620	35 750	35 920
Lowest	7 090	5 102	6 521	2 597	2 273	2 182	1 974	1 443	2 224	5 988	13 480	9 323
Highest	233 500	38 080	111 000	8 322	23 750	66 640	10 360	75 100	29 770	45 130	80 990	93 900
Peak flow	380 000	59 870	184 000	9 643	47 960	120 900	12 210	143 300	63 130	77 940	127 500	164 500
Day of peak	3	9	15	8	3	26	1	18	24	6	21	15
Monthly total (million cu m)	91 99	29 26	71 58	11 38	11 54	38 55	10 55	33 70	22 71	39 17	92 66	96 21
Runoff (mm)	121	39	94	15	15	51	14	44	30	52	122	127
Rainfall (mm)	99	46	130	23	51	183	22	139	78	81	180	153

Statistics of monthly data for previous record (Jan 1937 to Dec 1981—incomplete or missing months total 17.7 years)

Mean flows:	Avg	28 680	24 270	21 360	15 640	11 270	7 398	8 151	11 760	13 700	17 970	22 940	26 540
	Low	4 471	2 974	6 741	4 497	2 312	1 546	1 675	0 992	1 420	3 026	5 027	10 230
	(year)	1963	1963	1961	1974	1980	1957	1978	1959	1972	1937	1937	1963
	High	39 260	54 590	53 940	35 240	26 750	18 520	16 440	41 340	33 520	54 000	51 090	67 090
	(year)	1961	1966	1981	1970	1967	1972	1963	1958	1968	1967	1963	1965
Runoff:	Avg	94	78	75	53	40	25	29	42	47	63	78	94
	Low	16	9	24	15	8	5	6	4	5	11	17	36
	High	139	174	190	120	94	63	58	146	115	191	174	219
Rainfall:	Avg	109	88	90	76	77	74	89	95	107	104	110	114
	Low	41	20	28	8	13	18	41	18	8	37	33	41
	High	165	194	222	147	181	177	185	183	241	225	211	224

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	17 420	17 280	101
Lowest yearly mean		11 420	1975
Highest yearly mean		23 300	1966
Lowest monthly mean	3 939	0 992	Aug 1976
Highest monthly mean	35 920	62 080	Dec 1965
Lowest daily mean	1 443	0 425	23 Jun 1957
Highest daily mean	233 500	233 600	3 Jan
Peak	380 000	325 600	31 Mar 1969
10 %ile	43 000	40 820	105
50 %ile	9 115	9 702	94
95 %ile	2 199	2 233	98
Annual total (million cu m)	549.40	545.30	101
Annual runoff (mm)	724	719	101
Annual rainfall (mm)	1185	1133	105
[1941-70 rainfall average (mm)]		1161	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater

Station description

Broad crested weir 47.3 m broad, rated by current meter gauging from a cableway 1.5 km upstream of the station. Pre-1/10/65 rating may be less reliable.

027025 Rother at Woodhouse Mill**1982**Measuring authority: YWA
First year: 1961Grid reference: SK 432857
Level stn. (m OD) 28.72Catchment area (sq km): 352.2
Max alt. (m OD): 367**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15 940	3 435	3 347	3 172	2 121	4 158	4 988	2 115	1 579	1 637	1 789	3 322
2	31 160	3 296	3 578	3 009	2 338	8 025	4 792	1 785	1 502	1 752	3 273	3 212
3	41 080	3 214	5 049	2 860	2 283	3 218	4 178	1 589	1 437	1 928	13 490	2 940
4	18 580	3 085	4 622	2 773	1 905	2 043	3 680	6 483	1 416	5 637	6 560	2 821
5	29 280	5 221	3 832	2 808	1 811	3 591	3 351	3 588	2 671	6 570	6 141	2 930
6	15 050	4 733	10 880	5 229	1 772	5 220	3 104	2 451	1 787	5 708	5 910	2 796
7	9 386	3 842	15 710	4 708	1 785	2 870	2 875	2 013	1 558	3 992	5 009	8 734
8	7 544	3 478	8 151	3 734	1 784	2 017	2 729	1 849	1 476	4 345	12 400	8 416
9	6 168	3 329	10 730	3 040	1 776	2 419	2 651	1 829	1 398	3 107	9 547	10 760
10	5 328	3 162	18 230	2 953	1 735	2 834	2 450	1 765	1 389	2 634	5 818	11 450
11	4 750	3 098	11 130	2 723	1 688	4 153	2 383	1 870	1 308	2 398	4 660	6 560
12	4 195	3 018	9 873	2 602	1 632	2 293	2 320	1 738	1 300	2 502	11 370	5 307
13	3 781	3 016	6 877	2 527	1 554	1 905	2 248	2 582	1 348	2 973	6 594	4 341
14	3 520	2 718	10 030	2 507	1 552	1 839	2 321	2 118	1 305	2 357	7 433	4 031
15	3 325	2 689	21 380	2 422	1 773	1 880	2 345	2 963	1 298	1 970	6 108	6 109
16	3 530	2 574	11 980	2 338	1 787	1 840	2 126	1 931	1 349	2 289	7 062	6 960
17	5 058	2 550	10 250	2 235	1 537	1 598	1 958	2 229	1 337	2 874	8 298	5 216
18	5 460	2 743	8 044	2 218	1 618	7 434	1 918	2 855	1 286	2 225	7 255	4 239
19	5 380	2 602	8 969	2 256	1 572	5 442	1 925	2 090	1 320	2 016	5 327	23 850
20	6 406	2 453	8 876	2 151	1 537	3 505	1 804	1 996	2 864	3 110	4 219	11 930
21	6 317	2 407	6 914	2 086	1 627	16 720	1 870	1 677	4 052	2 631	11 550	8 102
22	8 419	2 210	5 882	2 057	1 982	75 580	1 855	1 699	1 789	2 233	7 689	5 960
23	8 145	2 444	4 983	2 028	1 798	75 320	1 884	1 642	1 596	2 000	5 874	5 050
24	5 879	2 322	4 522	1 913	1 639	19 870	1 794	2 876	2 641	2 012	7 694	5 307
25	5 377	2 570	4 187	1 934	1 574	18 060	1 767	1 968	2 322	2 012	7 604	4 658
26	5 488	3 226	3 914	1 951	1 480	13 840	1 767	1 661	2 655	1 921	6 796	4 210
27	4 942	2 938	3 690	1 888	1 557	9 757	1 685	1 566	3 684	1 815	5 287	3 912
28	4 291	2 794	3 557	1 895	1 487	12 660	1 639	1 506	2 475	1 684	4 479	3 494
29	4 228		3 658	2 031	1 351	8 952	1 654	1 461	2 189	1 689	3 847	3 278
30	3 948		3 331	1 857	1 320	6 200	1 680	1 661	1 784	1 633	3 424	3 137
31	3 621		3 222		1 304		1 646	1 971		1 639		3 066
Average	9 210	3 041	7 710	2 597	1 699	10 840	2 434	2 184	1 870	2 687	6 750	6 006
Lowest	3 325	2 210	3 222	1 857	1 304	1 696	1 639	1 461	1 286	1 633	1 789	2 796
Highest	41 080	5 221	21 380	5 229	2 336	75 580	4 988	6 483	4 052	6 570	13 490	23 950
Peak flow	58 260	7 129	31 110	8 826	4 999	105 400	5 425	13 820	7 280	12 090	19 590	37 510
Day of peak	3	5	15	6	10	23	1	4	21	5	21	19
Monthly total (million cu m)	24 67	7 36	20 65	6 73	4 56	28 09	6 52	5 85	4 85	7 20	17 50	16 09
Runoff (mm)	70	21	59	19	13	80	19	17	14	20	50	46
Rainfall (mm)	45	24	90	23	26	202	10	80	58	60	100	65

Statistics of monthly data for previous record (Oct 1981 to Dec 1981—incomplete or missing months total 2.5 years)

Mean	Avg.	6 127	7 251	6 751	5 047	3 784	2 384	1 955	2 008	2 249	2 796	4 582	6 120
Flows	Low	1 287	1 424	1 830	1 400	1 569	1 186	0 934	0 780	0 712	0 693	1 023	2 393
	(year)	1963	1963	1976	1976	1976	1976	1976	1976	1984	1972	1984	1971
	High	12 020	22 440	14 330	13 180	10 110	3 556	4 907	3 323	7 788	6 596	8 200	18 140
	(year)	1977	1977	1979	1966	1967	1979	1968	1968	1965	1966	1969	1965
Runoff	Avg.	47	50	51	37	29	18	15	15	17	21	34	47
	Low	10	10	14	10	12	9	7	8	5	5	8	18
	High	91	154	109	97	77	26	37	25	57	50	60	138
Rainfall	Avg.	67	64	65	59	62	55	60	62	66	59	75	71
	Low	20	18	13	13	15	11	14	6	18	12	33	13
	High	107	180	132	122	157	126	170	101	171	140	150	194

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	4 758	4 239	112
Lowest yearly mean		2 540	1964
Highest yearly mean		8 384	1966
Lowest monthly mean	1 699	0 693	Oct 1972
Highest monthly mean	10 840	22 440	Feb 1977
Lowest daily mean	1 288	0 393	14 Jun 1973
Highest daily mean	75 580	78 320	29 Dec 1978
Peak	105 400	91 480	29 Dec 1978
10 %ile	8 928	9 274	96
50 %ile	2 892	2 563	113
95 %ile	1 481	0 887	167
Annual total (million cu m)	150.00	133.80	112
Annual runoff (mm)	426	380	112
Annual rainfall (mm)	783	765	102
[1941-70 rainfall average (mm)]		764]	

Factors affecting flow regime

- Reservoir(s) in catchment
- Flow influenced by groundwater abstraction and/or recharge
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions
- Augmentation from effluent returns

Station description

Velocity-area station rated by current meter gauging from a cableway 35m downstream.

027035 Aire at Kildwick Bridge**1982**Measuring authority: YWA
First year: 1970Grid reference: SE 013457
Level stn. (m OD) 87.32Catchment area (sq km): 282.3
Max alt. (m OD): 594

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.460	5.392	4.994	2.170	0.954	0.657	4.341	0.664	2.712	4.343	3.052	6.277
2	36.830	4.568	12.350	1.970	4.090	0.621	3.493	0.683	2.138	6.942	3.014	5.560
3	62.940	3.955	14.610	1.842	2.971	0.575	2.834	0.521	1.833	4.323	6.180	4.819
4	57.950	3.536	16.700	1.885	1.694	0.536	2.441	0.863	1.700	3.849	8.981	5.686
5	47.260	10.100	8.116	1.882	1.324	0.659	2.185	0.814	1.675	9.583	8.652	9.021
6	25.330	9.203	12.790	1.915	1.163	16.750	2.053	0.576	1.707	10.050	8.070	5.920
7	13.940	7.912	10.800	2.682	1.084	3.264	1.731	0.522	2.106	6.498	5.285	24.750
8	9.080	8.223	7.919	2.651	0.979	1.718	1.571	0.517	1.740	5.028	5.740	35.680
9	6.593	13.960	12.050	2.053	0.921	1.330	2.081	0.545	1.488	3.900	11.020	29.890
10	5.152	7.940	19.970	1.937	0.693	1.215	1.888	0.502	1.351	3.824	8.452	20.520
11	4.233	6.988	13.190	1.723	0.880	1.983	1.305	0.484	1.227	3.969	10.200	11.730
12	3.622	5.658	15.860	1.597	0.870	3.328	1.154	0.587	1.131	3.739	26.650	8.826
13	3.169	4.791	11.110	1.497	0.873	1.910	1.068	1.351	1.071	5.229	17.710	6.975
14	2.459	4.045	38.690	1.329	0.868	1.261	1.064	0.795	1.005	3.747	17.580	7.730
15	2.629	3.520	49.250	1.246	0.918	1.298	1.081	2.785	0.996	2.959	11.900	27.860
16	2.835	3.208	28.260	1.255	0.920	1.694	1.203	1.995	1.018	3.489	20.470	16.400
17	3.890	2.962	17.820	1.324	0.872	1.091	0.935	7.942	0.993	5.377	13.850	10.590
18	4.656	2.831	13.850	1.273	0.865	1.448	0.777	21.480	0.945	3.482	18.170	8.043
19	4.574	2.612	14.350	1.108	0.839	2.817	0.752	8.584	1.035	3.926	20.690	41.030
20	5.781	2.327	13.210	1.027	0.834	2.909	0.700	6.018	2.985	18.440	16.240	40.480
21	5.963	2.160	10.290	1.001	0.935	12.030	0.660	5.074	3.625	9.358	42.820	30.250
22	6.788	2.064	8.315	0.956	1.103	20.160	0.644	8.498	2.082	6.340	31.720	14.640
23	8.428	1.873	6.227	0.925	1.221	10.920	0.645	8.842	1.852	4.783	27.870	9.884
24	5.891	1.886	5.058	0.904	1.135	5.592	0.638	13.030	8.074	4.350	22.590	13.190
25	8.222	1.901	4.332	0.878	1.028	26.270	0.594	8.098	6.188	4.123	22.870	10.170
26	12.350	2.939	3.748	0.864	1.093	23.400	0.588	7.222	4.460	3.697	16.260	24.080
27	7.047	2.610	3.352	0.832	0.996	11.730	0.587	4.476	7.744	3.213	16.840	18.920
28	5.868	3.269	3.011	0.783	0.980	19.400	0.572	3.223	9.886	2.664	11.910	12.020
29	8.161	2.750	0.829	0.909	0.909	10.010	0.551	3.049	7.665	2.419	9.108	9.882
30	8.592	2.537	0.898	0.789	0.789	5.897	0.547	6.158	4.689	2.224	7.352	8.353
31	6.142	2.381		0.739			0.551	3.784		2.107		9.410
Average	12.670	4.737	12.510	1.440	1.153	6.416	1.324	4.183	2.897	5.095	15.030	15.760
Lowest	2.459	1.873	2.381	0.783	0.739	0.538	0.547	0.484	0.945	2.107	3.014	4.819
Highest	62.940	13.960	49.250	2.882	4.090	26.270	4.341	21.480	9.686	18.440	42.820	41.030
Peak flow	66.650	19.300	64.420	3.475	9.708	49.200	4.979	44.810	19.260	22.390	58.670	60.110
Day of peak	4	9	14	7	2	25	1	18	24	20	21	19
Monthly total (million cu m)	34.46	11.46	33.51	3.73	3.09	16.63	3.54	11.20	7.51	13.65	38.95	42.21
Runoff (mm)	122	41	119	13	11	59	13	40	27	48	138	160
Rainfall (mm)	98	48	139	24	56	143	17	151	74	79	163	163

Statistics of monthly data for previous record (Dec 1968 to Dec 1981—incomplete or missing months total 0.3 years)

Mean flows	Avg.	9.094	8.252	7.534	4.518	2.832	2.164	1.751	2.706	3.722	6.792	10.490	9.549
	Low	4.463	4.758	2.652	0.922	0.611	0.605	0.564	0.289	1.147	0.788	3.583	3.175
	(year)	1973	1976	1975	1974	1974	1970	1976	1971	1972	1975	1971	1971
	High	13.280	12.830	22.520	9.588	6.022	6.133	5.927	7.020	10.370	17.570	16.680	20.820
	(year)	1975	1980	1981	1970	1979	1972	1973	1980	1974	1981	1970	1979
Runoff: Avg.	86	71	71	41	27	20	17	26	34	64	96	91	
	Low	42	41	25	8	6	6	3	11	7	33	30	
	High	126	114	214	88	57	56	67	95	167	143	198	
Rainfall: Avg.	114	81	104	69	76	76	82	87	119	109	134	110	
	Low	67	35	44	3	10	23	17	27	37	78	42	
	High	169	139	233	135	142	155	151	250	213	167	238	

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	6.974	5.772	121
Lowest yearly mean		3.652	1971
Highest yearly mean		8.060	1981
Lowest monthly mean	1.153	0.289	Aug 1976
Highest monthly mean	18.760	22.520	Mar 1981
Lowest daily mean	0.484	0.180	23 Aug 1976
Highest daily mean	62.940	79.900	27 Oct 1980
Peak	66.650	98.130	5 Dec 1972
10 %ile	17.580	13.950	
50 %ile	3.556	2.916	126
95 %ile	0.637	0.552	115
Annual total (million cu m)	219.90	182.20	121
Annual runoff (mm)	779	645	121
Annual rainfall (mm)	1175	1161	101
[1941-70 rainfall average (mm)]		1126]	

Factors affecting flow regime

● Reservoir(s) in catchment.

Comment

Flows below 1 m³s⁻¹ are of limited precision.
Low flow calibration under review.

Station description

Velocity-area station with bridge invert as control. Current meter gauging from cableway downstream.

027041 Derwent at Buttercrambe

1982

Measuring authority: YWA
First year: 1973

Grid reference: SE 731587
Level stn. (m OD) 9.50

Catchment area (sq km): 1586.0
Max alt. (m OD): 454

Daily mean gauged discharges (cubic metres per second) -

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	68.000	20.190	13.930	15.220	9.371	6.646	12.780	5.742	8.121	7.140	9.116	16.530
2	49.090	19.290	13.470	14.580	9.259	7.612	11.320	5.743	6.437	7.781	9.131	16.070
3	76.660	18.490	17.830	14.020	9.571	6.692	10.920	5.594	5.702	8.332	9.557	15.380
4	110.800	17.650	14.950	13.640	9.283	6.583	10.030	5.451	5.536	10.100	11.320	14.920
5	121.200	17.900	12.980	13.350	8.955	6.227	9.515	5.391	5.534	17.290	11.720	18.850
6	108.600	19.730	22.160	13.330	8.782	17.750	9.162	5.388	5.644	29.530	15.720	18.290
7	84.930	17.900	45.730	13.730	8.744	14.420	8.746	5.403	6.078	22.890	13.460	22.870
8	57.480	16.790	27.530	13.950	8.739	8.268	8.375	5.372	5.932	29.420	15.920	46.650
9	43.610	16.440	22.400	13.470	8.617	7.225	8.086	5.258	5.506	20.570	22.300	38.900
10	32.950	16.030	36.590	12.790	8.405	7.151	7.850	5.168	5.313	17.260	16.440	42.160
11	28.430	15.720	26.560	12.280	8.297	6.759	7.609	5.012	5.221	18.290	15.460	30.930
12	27.350	15.320	22.360	11.910	8.155	6.820	7.399	4.972	5.088	14.270	37.880	24.120
13	23.640	15.800	20.160	11.780	7.865	7.324	6.982	5.113	5.031	24.930	33.950	21.050
14	21.790	14.850	22.180	11.650	7.709	6.919	6.975	5.413	5.024	23.560	27.120	19.790
15	20.200	14.070	62.570	11.320	7.525	6.613	7.553	5.589	5.019	20.020	26.940	20.940
16	21.670	13.910	52.390	11.130	7.580	6.831	8.549	5.752	4.990	14.890	28.810	19.570
17	24.860	13.680	37.760	10.950	7.507	6.683	7.911	5.930	4.914	23.830	24.160	18.020
18	31.740	13.840	25.080	10.790	7.599	6.427	7.109	7.431	4.939	19.280	20.990	16.300
19	31.890	13.660	24.550	10.670	7.413	6.888	6.675	7.369	5.011	14.790	18.670	28.900
20	31.330	13.090	31.420	10.520	7.162	7.204	6.573	6.489	5.266	15.160	17.000	42.710
21	33.550	12.770	25.810	10.320	7.320	7.098	6.416	7.107	5.817	15.160	31.890	37.090
22	33.660	12.540	22.430	10.230	8.432	13.160	6.335	6.727	5.511	13.180	41.620	25.340
23	34.530	12.180	20.130	10.030	7.840	34.230	6.365	6.524	5.245	11.990	33.330	20.560
24	28.030	12.170	18.820	9.872	7.386	25.650	6.370	6.275	5.163	11.110	31.640	27.720
25	25.500	12.130	17.890	9.773	6.998	15.970	6.189	6.366	5.949	11.090	41.070	23.660
26	24.930	13.050	17.190	9.653	6.782	25.320	6.036	5.964	6.880	10.850	30.630	22.840
27	28.590	14.570	16.630	9.529	6.640	27.840	5.879	5.577	7.816	10.660	24.430	28.920
28	26.740	13.410	18.130	9.443	6.535	24.450	5.847	5.409	9.160	9.901	21.270	23.000
29	25.450		15.840	9.350	6.444	20.620	5.824	5.346	10.920	9.471	19.060	20.170
30	22.600		16.290	9.384	6.296	14.990	5.768	5.930	8.596	9.307	17.600	19.010
31	21.050		15.440		6.162		5.695	11.410		9.125		18.560
Average	42.610	15.260	24.200	11.620	7.849	12.210	7.624	6.005	6.045	15.520	22.610	24.350
Lowest	20.200	12.130	12.980	9.350	6.162	6.227	5.695	4.972	4.914	7.140	9.116	14.920
Highest	121.200	20.190	62.570	15.220	9.571	34.230	12.780	11.410	10.920	29.530	41.620	46.650
Peak flow	124.800	20.650	67.990	15.350	9.855	37.100	13.140	13.600	11.750	34.170	50.330	51.330
Day of peak	5	1	15	1	3	23	1	31	29	6	27	8
Monthly total (million cu m)	114.10	36.91	64.82	30.12	21.02	31.65	20.42	16.08	15.67	41.57	58.60	65.22
Runoff (mm)	72	23	41	19	13	20	13	10	10	26	37	41
Rainfall (mm)	70	18	81	12	25	149	22	79	57	89	92	65

Statistics of monthly data for previous record (Oct 1973 to Dec 1981)

Mean flows	Avg	29.830	31.090	29.900	19.100	16.010	10.690	8.008	8.633	8.461	16.200	15.150	26.280
	Low	17.710	16.170	8.789	6.927	8.095	5.342	3.884	3.215	4.730	5.554	7.404	13.880
	(year)	1975	1976	1978	1976	1974	1974	1976	1978	1975	1978	1978	1973
	High	48.190	49.290	56.110	33.670	29.840	21.260	11.810	15.440	14.710	36.810	25.720	42.740
	(year)	1977	1978	1979	1979	1979	1979	1981	1980	1976	1976	1980	1978
Runoff	Avg	50	48	51	31	27	17	14	15	14	27	25	44
	Low	30	26	15	11	14	9	7	5	8	9	17	23
	High	81	75	95	55	50	35	20	28	24	62	41	72
Rainfall	Avg	77	56	71	46	65	50	68	64	77	83	60	87
	Low	34	21	6	16	22	11	18	10	21	21	28	46
	High	111	101	143	85	142	113	123	128	192	158	88	180

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	16.370	18.240	90
Lowest yearly mean		11.720	1975
Highest yearly mean		25.320	1979
Lowest monthly mean	6.005	3.215	Aug 1976
Highest monthly mean	42.610	58.110	Mar 1979
Lowest daily mean	4.914	2.697	23 Aug 1976
Highest daily mean	121.200	121.400	29 Dec 1978
Peak	124.800	123.700	29 Dec 1978
10 %ile	30.650	37.430	
50 %ile	12.380	13.390	
95 %ile	5.319	4.731	
Annual total (million cu m)	516.20	575.60	
Annual runoff (mm)	326	383	
Annual rainfall (mm)	759	804	
[1941-70 rainfall average (mm)]		784]	

Factors affecting flow regime

● Abstraction for public water supplies

Station description

Crump weir 19.987 m broad. Catchment area includes 33.2 sq km 027033 Sea Cut at Scarborough, but flow data do not include flood diversions

027053 Nidd at Birstwith**1982**Measuring authority: YWA
First year: 1975Grid reference: SE 230603
Level stn. (m OD) 67.40Catchment area (sq km): 217.6
Max alt. (m OD): 705

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.571	3.333	3.293	2.131	1.185	1.036	2.322	1.054	1.567	2.752	4.797	5.722
2	29.350	3.119	7.120	2.126	1.832	1.072	2.190	1.036	1.496	4.871	2.881	3.537
3	97.440	3.054	7.353	2.074	1.692	1.050	2.051	0.997	1.483	3.416	4.554	3.184
4	72.470	3.009	6.426	2.042	1.355	1.043	1.994	1.586	1.304	2.940	3.966	5.495
5	53.350	5.434	3.401	2.064	1.278	1.025	1.917	1.154	1.211	7.210	5.325	7.078
6	17.310	3.944	6.383	2.083	1.248	2.096	1.856	1.128	1.274	7.609	4.579	4.072
7	10.370	3.533	6.771	2.330	1.232	1.255	1.780	1.013	1.268	6.745	3.664	11.340
8	9.291	3.566	4.334	2.224	1.204	1.065	1.720	1.025	1.147	6.192	5.593	18.270
9	8.494	3.822	4.177	2.026	1.184	1.332	1.673	1.008	1.118	3.376	11.670	18.730
10	8.013	3.459	11.310	1.969	1.185	1.112	1.611	0.980	1.103	2.834	7.697	14.120
11	6.142	3.935	11.130	1.887	1.177	1.122	1.582	0.975	1.067	2.730	9.124	8.483
12	5.658	3.893	15.550	1.841	1.149	1.067	1.555	0.993	1.039	3.552	16.200	6.767
13	3.682	4.824	9.571	1.828	1.128	1.027	1.526	1.095	1.026	3.661	13.540	8.341
14	3.196	3.918	71.590	1.854	1.121	1.002	1.805	1.038	1.023	3.108	14.220	6.727
15	3.321	2.798	52.310	1.852	1.130	1.059	2.260	1.410	1.018	2.752	9.189	16.060
16	2.970	2.730	18.040	1.849	1.132	1.081	2.129	1.161	1.012	3.184	14.960	12.820
17	3.557	2.748	12.480	1.844	1.129	1.022	1.678	3.605	1.004	3.498	13.820	11.390
18	3.612	2.825	10.020	1.825	1.130	1.337	1.519	3.616	0.999	2.807	14.230	6.909
19	3.672	2.747	10.340	1.510	1.114	1.603	1.511	2.206	1.046	2.763	12.570	22.610
20	4.687	2.608	6.105	1.480	1.088	1.360	1.514	2.109	1.445	4.041	14.110	77.590
21	4.734	2.548	6.758	1.348	1.147	4.087	1.202	1.854	1.324	3.053	33.930	27.000
22	5.153	2.496	8.450	1.293	1.199	12.760	1.137	2.235	1.128	2.768	31.240	13.380
23	4.468	2.466	4.310	1.264	1.153	7.509	1.137	1.889	1.120	2.650	23.630	8.014
24	3.973	2.477	2.807	1.260	1.115	3.135	1.120	2.448	1.783	2.711	20.700	7.519
25	4.438	2.487	2.546	1.237	1.095	13.970	1.088	5.150	1.580	2.690	17.650	10.890
26	4.977	2.900	2.410	1.229	1.126	8.357	1.068	3.641	1.478	2.720	13.880	15.270
27	3.970	2.687	2.314	1.220	1.126	6.830	1.079	1.823	2.485	2.641	12.700	12.780
28	3.866	2.843	2.285	1.201	1.129	7.242	1.080	1.630	2.267	2.536	7.505	11.500
29	3.600		2.161	1.207	1.108	3.690	1.067	1.625	2.157	2.482	8.295	10.880
30	3.496		2.042	1.219	1.091	2.575	1.048	2.169	1.788	2.439	5.916	6.608
31	3.409		2.055		1.097		1.052	1.689		2.432		6.406
Average	12.810	3.214	10.190	1.704	1.196	3.131	1.556	1.792	1.358	3.522	12.000	12.760
Lowest	2.970	2.466	2.042	1.201	1.088	1.002	1.048	0.975	0.999	2.432	2.881	3.184
Highest	97.440	5.434	71.590	2.330	1.832	13.970	2.322	5.150	2.485	7.609	33.930	77.590
Peak flow	148.800	8.638	185.700	2.528	2.835	38.770	4.732	17.320	4.144	19.210	48.800	155.200
Day of peak	3	5	14	7	2	25	15	17	27	5	21	20
Monthly total (million cu m)	34.32	7.78	27.30	4.42	3.20	8.12	4.17	4.80	3.52	9.43	31.11	34.17
Runoff (mm)	158	36	125	20	15	37	19	22	16	43	143	157
Rainfall (mm)	115	57	156	24	61	185	34	138	80	96	208	175

Statistics of monthly data for previous record (Apr 1975 to Dec 1981—incomplete or missing months total 0.1 years)

Mean flows	Avg	8 395	8.542	10 510	3 603	3 050	1.811	1 214	1 572	2 300	5 989	6.920	10 110
	Low	6 927	3 866	2 497	1 890	1 135	1 015	0 912	0 886	1 263	1.508	1 893	3 612
	(year)	1980	1976	1976	1875	1980	1976	1977	1976	1977	1978	1975	1981
	High	10 230	14 520	21 140	7 247	5 083	2 979	1 451	2 493	3 920	15.120	10.590	20 280
	(year)	1978	1977	1979	1979	1977	1981	1980	1979	1976	1976	1977	1979
Runoff	Avg	103	96	129	43	38	22	15	19	27	73	82	124
	Low	85	45	31	23	14	12	11	11	15	19	23	44
	High	126	161	260	86	63	35	18	31	47	186	126	250
Rainfall (1980-1981)	Avg	122	113	186	41	59	119	60	104	129	185	137	109
	Low	115	110	129	11	27	75	57	64	87	184	127	80
	High	129	115	243	71	90	163	82	144	170	186	147	138

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	5.464	5.328	103
Lowest yearly mean		4.915	1978
Highest yearly mean		7.148	1979
Lowest monthly mean	1.196	0.886	Aug 1976
Highest monthly mean	12.810	21.140	Mar 1979
Lowest daily mean	0.975	0.817	27 Jun 1975
Highest daily mean	97.440	109.400	28 Dec 1978
Peak	185.700	203.400	8 Mar 1979
10 %ile	12.550	13.170	
50 %ile	2.507	2.806	
95 %ile	1.036	1.096	
Annual total (million cu m)	172.30	168.20	
Annual runoff (mm)	792	773	
Annual rainfall (mm)	1329	1364	
(1941-70 rainfall average (mm))		860)	

Factors affecting flow regime

- Reservoir(s) in catchment
- Abstraction for public water supplies
- Augmentation from surface water and/or groundwater

Station description

Velocity-area station with natural rock control

028009 Trent at Colwick**1982**Measuring authority: STWA
First year: 1958Grid reference: SK 620399
Level stn. (m OD) 16 00Catchment area (sq km): 7486.0
Max alt. (m OD) 636

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	672 300	99 310	83 550	72 160	49 720	34 820	69 080	46 880	42 090	58 140	49 860	74 320
2	474 400	91 450	105 500	72 100	49 880	47 940	61 230	42 990	38 920	56 710	55 580	73 340
3	447 300	85 470	116 100	66 620	55 100	59 210	57 970	39 020	38 070	58 790	80 110	69 770
4	502 000	79 210	111 700	64 150	51 310	54 370	53 280	44 420	36 490	78 840	95 260	64 210
5	413 000	88 290	98 970	63 740	48 800	61 880	48 790	74 870	45 420	86 480	83 860	66 780
6	357 600	132 500	131 700	92 670	47 420	54 600	47 740	126 600	49 850	110 100	104 100	69 140
7	238 800	107 200	310 600	146 400	50 280	48 080	45 220	102 800	43 470	88 070	88 380	87 350
8	187 800	92 880	313 100	158 900	49 020	40 900	43 890	59 690	39 370	90 820	128 200	192 400
9	135 600	85 830	221 800	119 500	45 900	42 390	42 040	47 670	37 230	98 430	146 100	185 000
10	117 800	81 830	249 000	98 090	45 410	44 260	41 570	42 630	36 580	72 990	102 000	296 500
11	108 200	92 910	251 000	87 990	44 600	55 040	40 430	39 760	36 010	61 900	84 820	271 000
12	99 020	102 400	195 100	77 010	42 870	60 510	39 090	38 500	34 420	56 340	155 800	169 000
13	90 280	93 940	159 900	70 850	40 600	59 040	37 780	42 740	34 000	58 810	146 800	147 000
14	85 520	84 090	136 000	66 730	40 340	42 830	38 870	54 150	34 120	58 950	124 000	129 200
15	82 190	76 700	282 900	65 380	40 560	39 040	92 530	60 350	34 810	50 250	128 000	135 800
16	85 790	72 000	365 000	63 270	42 580	38 170	88 370	62 440	34 400	48 610	140 900	138 600
17	117 800	68 730	337 800	60 900	40 220	36 060	62 570	61 510	33 730	60 720	168 400	118 600
18	184 400	71 340	240 800	57 370	41 320	68 280	42 610	88 000	33 470	58 480	156 300	103 800
19	197 100	69 310	191 400	54 490	44 060	80 430	40 310	65 130	33 700	55 550	141 700	147 000
20	176 500	65 400	203 600	56 210	40 350	67 930	39 470	55 470	35 860	79 810	127 000	234 300
21	165 400	62 790	172 800	55 710	39 160	58 620	39 690	47 620	76 610	123 700	127 200	176 500
22	164 100	81 620	159 500	54 900	45 150	199 000	38 870	44 080	95 060	87 590	207 200	149 300
23	214 000	59 970	134 200	53 410	46 430	291 900	38 640	44 390	57 330	71 120	158 800	123 500
24	174 500	58 450	115 700	51 720	45 970	193 200	38 860	45 260	50 590	60 020	143 900	131 300
25	138 200	62 020	104 400	50 530	40 160	133 700	35 980	48 460	63 670	57 170	169 500	131 300
26	148 900	70 640	96 080	60 930	37 990	213 300	35 700	44 480	71 210	54 880	142 000	111 200
27	153 700	76 730	88 290	50 670	39 320	179 500	35 590	43 070	89 700	52 370	117 000	105 000
28	124 400	70 570	84 050	50 190	41 990	117 700	35 060	40 750	92 960	50 080	102 100	95 760
29	114 100		82 870	50 360	37 750	109 000	34 950	37 400	96 590	47 820	93 130	86 910
30	124 400		80 540	49 080	35 440	85 100	34 280	39 150	75 060	46 110	79 940	82 060
31	106 700		74 120		35 050		36 500	45 160		44 330		79 360
Average	206 800	80 840	170 800	71 070	43 700	67 220	45 980	53 400	50 690	67 130	121 500	130 500
Lowest	82 190	58 450	74 120	49 080	35 050	34 820	34 280	37 400	33 470	44 330	49 860	64 210
Highest	672 300	132 500	365 000	158 900	55 100	291 900	92 530	126 600	96 590	123 700	207 200	296 500
Peak flow	721 300	143 600	371 000	189 000	63 220	327 000	107 300	136 500	121 300	146 000	224 400	310 200
Day of peak	1	6	16	8	3	23	15	8	22	21	22	10
Monthly total (million cu m)	551.20	195.80	457.40	184.20	117.00	226.10	123.10	143.00	131.40	179.80	315.00	349.50
Runoff (mm)	74	28	61	25	16	30	16	19	18	24	42	47
Rainfall (mm)	53	32	95	31	32	148	26	100	68	61	82	63

Statistics of monthly data for previous record (Oct 1958 to Dec 1981—incomplete or missing months total 0.2 years)

Mean Flows:	Avg	132 500	133 800	108 700	84 450	69 880	48 580	42 640	44 150	48 540	66 810	86 210	121 800
	Low	45 980	49 730	47 180	35 240	32 250	24 690	19 450	18 450	20 270	22 110	32 920	46 260
	(year)	1963	1963	1976	1976	1976	1976	1976	1976	1959	1959	1964	1975
	High	207 900	387 600	227 800	176 800	175 100	78 870	100 600	73 030	114 700	177 600	227 100	353 700
	(year)	1959	1977	1981	1988	1969	1979	1968	1966	1965	1980	1980	1985
Runoff:	Avg	47	44	39	29	25	17	15	16	17	24	30	44
	Low	16	16	17	12	12	9	7	7	7	8	11	17
	High	74	125	81	61	63	27	36	26	40	63	79	127
Rainfall:	Avg	72	57	59	57	61	57	59	71	67	65	73	78
	Low	23	8	13	11	18	14	18	22	3	12	38	15
	High	138	175	116	101	144	120	114	120	149	141	145	173

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	94.280	82 120	115
Lowest yearly mean		47 020	1976
Highest yearly mean		119 200	1966
Lowest monthly mean	43 700	May 18 450	Aug 1976
Highest monthly mean	206 800	Jan 387 500	Feb 1977
Lowest daily mean	33 470	18 Sep 14 700	23 Aug 1976
Highest daily mean	672 300	1 Jan 815 500	6 Dec 1980
Peak	721 300	1 Jan 1228 000	22 Dec 1976
10 %ile	172 500	168 800	102
50 %ile	69 090	55 640	124
95 %ile	36 140	26 280	138
Annual total (million cu m)	2973.00	2592.00	115
Annual runoff (mm)	397	346	115
Annual rainfall (mm)	791	776	102
[1941-70 rainfall average (mm)]		776]	

Station description

Velocity-area station

Factors affecting flow regime

- Reservoir(s) in catchment.
- Flow influenced by groundwater abstraction and/or recharge
- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater.
- Augmentation from effluent returns.

028010 Derwent at Longbridge Weir**1982**Measuring authority: STWA
First year: 1935Grid reference: SK 356363
Level stn. (m OD) 44.40Catchment area (sq km): 1054.0
Max alt. (m OD): 636**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	45 850	22 400	13 790	14 820	9 930	8 298	15 920	7 430	7 247	10 440	9 202	17 400
2	67 070	20 010	14 210	14 230	10 030	8 890	14 880	7 097	6 850	10 760	10 280	16 920
3	124 800	18 250	19 010	13 790	10 360	6 322	13 840	6 728	6 522	9 913	22 390	14 940
4	100 200	16 790	19 120	13 550	9 657	6 924	12 590	12 410	6 533	15 240	17 290	14 080
5	128 500	21 810	18 000	13 400	9 422	7 878	11 860	11 850	7 384	14 440	20 250	15 110
6	76 950	23 220	48 200	19 650	9 111	6 812	11 060	8 755	8 176	19 030	20 950	13 800
7	52 380	18 540	49 800	22 410	9 074	6 220	10 510	7 486	7 548	14 060	18 370	26 880
8	42 000	17 200	37 290	17 970	8 966	5 833	9 892	7 112	7 364	13 800	30 800	29 810
9	33 870	16 560	39 030	14 970	8 674	6 844	9 586	7 094	6 992	11 860	27 150	37 140
10	28 610	15 980	61 340	14 620	8 689	6 919	9 383	6 812	6 769	10 860	21 710	41 270
11	25 000	15 420	45 160	13 880	8 201	8 594	9 096	6 718	6 688	10 180	18 860	36 920
12	22 110	15 170	41 930	13 270	7 852	9 904	8 803	6 829	6 264	10 480	32 230	32 660
13	20 450	14 990	34 410	12 810	7 787	6 594	8 690	7 322	6 430	11 500	25 720	26 420
14	21 390	14 260	40 800	12 480	7 758	6 374	8 643	8 224	6 351	10 190	28 780	24 240
15	20 570	13 720	96 620	12 050	7 922	6 259	8 694	8 576	6 548	9 176	25 030	26 680
16	20 430	12 430	58 790	12 420	7 916	6 192	8 716	8 257	6 272	9 659	32 980	29 030
17	24 320	13 160	55 730	12 110	7 523	5 935	8 498	7 998	5 721	12 180	37 440	26 810
18	24 830	14 100	49 540	10 430	7 154	12 650	8 067	10 080	5 821	10 690	39 870	26 510
19	21 930	12 230	42 870	8 923	7 007	11 280	8 351	8 616	5 997	9 777	38 640	61 350
20	23 550	12 160	41 930	11 220	6 934	7 669	8 239	9 536	7 904	13 160	36 740	50 360
21	23 740	11 810	35 280	11 000	7 010	15 420	8 173	8 968	10 580	12 480	45 360	46 650
22	28 780	11 290	30 550	10 870	7 500	79 420	8 075	8 499	8 246	11 300	41 090	40 710
23	36 130	10 660	25 840	10 760	7 745	51 930	7 746	7 873	7 347	10 620	36 670	34 920
24	27 510	10 670	23 110	10 610	7 409	24 290	7 668	8 500	7 744	9 936	37 700	33 980
25	25 160	11 550	20 800	10 320	6 872	37 940	7 433	8 431	9 226	10 470	37 560	25 140
26	30 880	15 250	18 600	10 900	6 788	42 620	7 321	7 692	10 690	10 020	34 080	23 150
27	27 320	13 320	17 990	10 500	6 924	29 260	7 228	7 042	12 090	9 515	32 820	22 610
28	22 990	12 570	17 360	10 230	6 526	26 910	7 095	6 863	12 130	9 172	30 540	20 280
29	25 910	16 770	9 801	6 444	23 410	7 009	6 675	6 675	15 240	9 021	23 610	19 160
30	29 360	15 990	9 472	6 050	18 370	8 915	7 210	11 940	8 945	18 400	17 870	17 870
31	24 350	15 260		6 876		7 099	7 983		8 833		17 350	
Average	39 580	15 200	34 380	12 780	7 907	16 670	9 260	8 066	8 020	11 210	28 360	28 080
Lowest	20 430	10 660	13 790	8 923	5 876	5 833	6 915	6 875	5 721	8 833	9 202	13 800
Highest	128 500	23 220	96 620	22 410	10 360	79 420	15 920	12 410	15 240	19 030	45 360	61 350
Peak flow	144 900	26 300	114 300	26 180	11 350	114 800	17 100	26 120	56 210	88 370	88 370	88 370
Day of peak	5	6	15	6	3	22	1	8	21	19	19	19
Monthly total (million cu m)	106 00	36 76	92 03	33 13	21 18	43 21	24 80	21 66	20 79	30 03	73 51	75 20
Runoff (mm)	101	35	87	31	20	41	24	21	20	28	70	71
Rainfall (mm)	78	38	128	38	35	188	16	119	85	73	132	98

Statistics of monthly data for previous record (Jan 1938 to Dec 1981—incomplete or missing months total 5.1 years)

Mean	Avg	28 910	29 200	23 050	17 230	12 730	9 498	8 799	8 633	10 810	13 410	22 190	26 030
Flows	Low	9 751	8 086	9 110	7 677	5 517	4 630	4 211	3 176	3 399	3 782	4 302	8 480
	(year)	1983	1983	1976	1976	1956	1957	1957	1952	1952	1947	1975	1975
	High	67 000	76 780	69 410	39 590	26 410	18 010	28 660	33 940	33 170	35 130	54 360	88 680
	(year)	1939	1977	1947	1966	1967	1969	1958	1956	1946	1960	1940	1965
Runoff	Avg	73	68	59	42	32	23	22	22	27	34	55	66
	Low	25	19	23	19	14	11	11	8	8	10	11	22
	High	170	176	176	97	67	44	73	86	82	89	134	225
Rainfall	Avg	102	82	73	65	69	67	80	84	82	87	108	99
	Low	33	8	16	8	15	15	26	10	3	17	16	20
	High	215	236	185	129	163	138	158	185	199	178	232	246

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	18 340	17 480	105
Lowest yearly mean		9 626	1976
Highest yearly mean		25 200	1966
Lowest monthly mean	7 907	3 176	Aug 1952
Highest monthly mean	39 580	88 680	Dec 1965
Lowest daily mean	5 721	1 317	30 Aug 1952
Highest daily mean	128 500	334 100	10 Dec 1965
Peak	144 900		
10 %ile	37 250	35 020	106
50 %ile	12 290	12 000	102
95 %ile	8 515	4 531	144
Annual total (million cu m)	578 40	551 60	105
Annual runoff (mm)	549	523	105
Annual rainfall (mm)	1026	996	103
[1941-70 rainfall average (mm)]		1020]	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Flow influenced by groundwater abstraction and/or recharge.
- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater.
- Augmentation from effluent returns.

Station description

Velocity-area station with broad crested horseshoe weir for control, long and insensitive

030001 Witham at Claypole Mill**1982**Measuring authority AWA
First year 1959Grid reference: SK 842480
Level stn. (m OD) 16 90Catchment area (sq km): 297.9
Max alt. (m OD) 158**Daily mean gauged discharges (cubic metres per second) -**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5 179	2 257	1 981	2 367	1 248	0 687	1 948	0 767	0 858	0 892	1 080	1 557
2	6 394	2 258	1 966	2 182	1 182	0 844	1 678	0 786	0 859	1 500	1 059	1 503
3	11 800	2 210	2 009	2 233	1 145	0 673	1 883	0 797	0 830	2 283	1 781	1 433
4	7 411	2 186	1 998	2 177	1 092	0 636	1 585	1 246	0 807	2 170	1 489	1 412
5	5 602	2 390	1 838	1 789	1 098	0 641	1 563	5 057	1 131	1 603	1 399	1 395
6	4 510	2 848	6 741	2 375	1 132	0 623	1 475	6 486	1 264	1 689	1 336	1 383
7	3 628	2 563	11 070	2 365	1 116	0 592	1 405	3 637	0 916	1 535	1 323	2 052
8	3 294	2 336	5 359	2 311	1 125	0 584	1 430	2 329	0 790	2 263	1 585	3 148
9	3 366	2 227	4 505	2 151	1 061	0 609	1 436	1 664	0 746	2 137	1 743	5 722
10	2 930	2 077	5 349	1 997	0 969	0 559	1 392	1 489	0 744	1 541	1 410	9 803
11	2 431	2 207	4 106	1 896	1 052	1 062	1 370	1 354	0 695	1 318	1 279	4 441
12	2 483	2 184	3 650	1 841	1 028	0 824	1 342	1 347	0 606	1 265	2 113	3 392
13	2 329	2 376	2 850	1 789	0 956	1 067	1 225	1 363	0 630	1 206	2 010	2 822
14	2 215	2 226	2 747	1 782	0 889	0 839	1 253	1 328	0 594	1 161	1 747	2 653
15	2 403	2 110	6 593	1 605	0 947	0 651	1 428	1 603	0 607	0 927	2 476	2 796
16	2 402	2 038	8 133	1 638	0 893	0 634	1 335	1 621	0 628	0 921	3 095	2 515
17	2 163	2 023	5 005	1 604	0 915	0 613	1 312	1 558	0 630	0 962	2 525	2 342
18	2 636	1 984	3 993	1 553	1 017	1 505	1 238	1 413	0 613	0 915	2 065	2 122
19	2 856	1 948	3 906	1 592	0 945	1 438	1 188	1 291	0 640	0 881	1 752	3 794
20	3 133	1 915	4 690	1 499	0 841	0 997	1 187	1 264	0 648	1 217	1 533	4 412
21	3 468	1 846	4 553	1 571	0 796	0 900	1 086	1 133	2 067	1 147	2 392	3 055
22	4 331	1 799	3 869	1 509	0 831	2 143	1 072	1 094	1 309	1 724	3 073	2 435
23	5 999	1 608	3 458	1 524	0 832	5 158	1 079	0 999	0 983	1 997	2 400	2 324
24	4 202	1 531	3 181	1 475	0 840	4 838	1 041	1 211	0 888	1 449	2 563	2 678
25	3 618	1 628	3 111	1 470	0 721	5 783	1 007	1 098	0 853	1 335	2 943	2 668
26	3 785	1 724	2 953	1 508	0 705	10 110	0 904	1 018	1 576	1 266	2 384	2 499
27	3 847	1 676	2 788	1 472	1 470	5 251	0 907	0 980	1 845	1 154	1 994	2 356
28	3 217	1 584	2 681	1 380	1 192	3 357	0 893	0 916	1 474	1 077	1 738	2 173
29	2 885		2 630	1 332	0 761	2 877	0 914	0 862	1 244	1 039	1 637	2 018
30	2 733		2 446	1 287	0 673	2 189	0 781	0 899	1 037	1 029	1 563	2 042
31	2 428		2 389		0 646		0 741	0 918		0 964		2 043
Average	3 860	2 062	3 952	1 776	0 971	1 949	1 254	1 597	0 950	1 373	1 916	2 804
Lowest	2 163	1 531	1 838	1 287	0 646	0 559	0 741	0 767	0 594	0 881	1 059	1 383
Highest	11 800	2 848	11 070	2 375	1 470	10 110	1 948	6 486	2 067	2 283	3 095	9 803
Peak flow	12 520	2 961	16 160	3 217	2 172	12 750	2 346	13 590	4 818	2 886	3 851	14 990
Day of peak	3	6	6	6	27	26	1	5	21	8	21	9
Monthly total (million cu m)	10 34	4 99	10 59	4 60	2 60	5 05	3 36	4 28	2 46	3 68	4 97	7 51
Runoff (mm)	35	17	36	15	9	17	11	14	8	12	17	25
Rainfall (mm)	31	21	72	20	42	148	9	113	55	58	53	47

Statistics of monthly data for previous record (May 1959 to Dec 1981)

Mean	Avg.	2 730	3 305	2 958	2 246	1 851	0 926	0 741	0 748	0 715	0 933	1 413	2 192
flows:	Low	0 673	0 491	0 453	0 364	0 311	0 184	0 062	0 136	0 232	0 218	0 278	0 311
	(year)	1965	1976	1976	1976	1976	1976	1976	1959	1959	1959	1964	1964
	High	5 527	10 690	6 995	5 748	4 332	2 089	2 119	2 376	2 886	3 906	6 526	7 879
	(year)	1961	1977	1979	1979	1989	1989	1988	1980	1968	1960	1960	1965
Runoff:	Avg	25	27	27	20	15	8	7	7	6	8	12	20
	Low	6	4	4	3	3	2	1	1	2	2	2	3
	High	50	87	63	50	39	18	19	21	25	35	57	71
Rainfall:	Avg	53	42	48	50	48	49	53	62	51	49	57	58
	Low	20	3	8	10	11	3	14	12	3	5	24	13
	High	117	140	92	81	130	102	132	127	127	137	115	142

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	2 043	1 706	120
Lowest yearly mean		0 594	1976
Highest yearly mean		2 807	1979
Lowest monthly mean	0 950	0 062	Jul 1976
Highest monthly mean	3 952	10 690	Feb 1977
Lowest daily mean	0 559	0 021	24 Jul 1976
Highest daily mean	11 800	31 600	11 Feb 1977
Peak	16 160	37 540	11 Feb 1977
10 %ile	3 738	3 839	97
50 %ile	1 573	0 984	183
95 %ile	0 847	0 318	204
Annual total (million cu m)	64 43	53 84	120
Annual runoff (mm)	218	181	120
Annual rainfall (mm)	664	620	107
[1941-70 rainfall average (mm)]		622]	

Factors affecting flow regime

- Flow influenced by groundwater abstraction and/or recharge
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater.

Station description

Compound broad crested weir. Range 0.03-42.9 cu m/s

032001 Nene at Orton**1982**Measuring authority: AWA
First year: 1939Grid reference: TL 166972
Level stn. (m OD) 3.35Catchment area (sq km): 1634.3
Max alt. (m OD): 224

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	52 410	8 701	9 916	11 340	4 987	3 831	7 997	3 679	3 183	1 876	4 504	9 082
2	58 530	10 300	13 990	9 270	4 665	3 907	6 580	3 653	3 574	2 274	4 480	8 466
3	61 650	10 660	17 640	7 473	4 602	3 352	4 505	3 074	3 504	5 894	4 296	6 991
4	55 790	10 270	10 550	7 032	4 898	3 842	4 243	3 050	2 683	12 050	4 094	7 241
5	54 970	9 672	9 957	9 373	4 537	3 392	4 856	3 104	2 642	12 790	4 030	6 767
6	51 110	10 450	8 748	10 280	4 484	4 835	4 872	2 861	2 654	5 643	3 968	6 904
7	43 500	11 790	52 360	11 410	4 454	6 628	4 478	4 470	2 719	5 681	4 062	7 590
8	35 720	11 140	47 510	10 280	4 181	5 155	4 187	6 462	2 534	4 035	5 113	17 840
9	29 070	10 370	48 010	9 775	3 824	3 300	4 219	4 033	2 232	8 783	8 448	32 450
10	13 790	9 790	44 690	8 156	3 843	3 079	4 233	3 153	2 634	8 333	5 867	53 280
11	28 940	9 520	40 830	9 008	3 977	3 531	4 565	2 861	7 138	6 533	5 869	46 820
12	26 620	11 160	40 010	8 823	3 086	4 485	5 237	2 571	2 149	5 357	5 597	39 270
13	25 120	16 020	33 380	8 264	2 758	5 490	3 742	2 598	2 612	3 438	7 808	23 190
14	15 230	18 800	22 090	7 804	2 916	6 328	3 037	3 708	1 793	4 569	9 968	26 570
15	15 620	16 590	39 510	6 459	3 387	4 529	4 123	4 570	2 422	4 356	44 130	21 300
16	13 500	13 790	57 460	6 768	3 431	3 383	4 215	5 710	2 052	3 127	34 390	20 580
17	22 390	10 370	55 480	6 916	3 705	3 144	4 015	4 745	1 097	3 370	29 370	11 120
18	28 870	11 360	54 240	6 979	3 672	4 574	3 562	4 195	1 205	4 239	18 440	13 910
19	35 450	10 890	44 710	6 702	3 869	7 493	3 539	3 703	1 522	4 158	12 760	13 800
20	36 180	11 030	40 500	6 585	3 841	7 104	2 810	3 405	1 680	4 095	9 425	38 800
21	38 490	10 330	33 970	5 975	3 714	6 269	2 399	3 153	2 069	4 392	9 314	34 140
22	36 940	9 547	20 390	6 114	3 995	8 201	2 910	3 373	3 265	29 780	32 410	17 340
23	36 950	9 085	28 100	6 067	4 005	26 280	3 089	3 555	2 622	27 750	29 780	16 420
24	30 210	7 240	28 620	5 948	3 724	24 630	2 835	3 462	3 563	7 988	28 680	15 580
25	27 710	8 603	26 910	5 740	3 714	31 980	2 873	2 876	3 508	6 677	34 350	15 320
26	29 630	10 100	25 560	5 835	4 035	36 850	2 831	3 258	3 711	6 121	30 670	14 850
27	29 770	9 419	23 420	5 445	5 558	28 380	2 945	3 527	2 908	6 223	16 860	10 770
28	25 360	8 772	22 600	5 429	5 990	11 520	3 029	3 336	5 095	4 451	12 300	11 270
29	24 270		23 200	5 381	3 704	10 560	2 964	3 146	4 835	4 092	9 367	9 234
30	23 880		12 790	5 605	3 322	8 033	2 984	3 120	2 367	3 604	9 352	9 609
31	14 510		12 100		3 468		3 100	3 061		3 594		9 026
Average	32 970	10 920	30 460	7 541	4 014	9 470	3 905	3 596	2 699	6 944	14 660	18 570
Lowest	13 500	7 240	8 748	5 381	2 758	3 079	2 399	2 571	1 097	1 876	3 968	6 767
Highest	61 650	18 800	57 460	11 410	5 990	36 850	7 997	6 462	5 095	29 780	44 130	53 280
Peak flow	64 890	19 860	59 760	12 450	7 206	45 230	8 443	7 668	7 706	34 760	47 320	56 240
Day of peak	3	14	16	6	28	26	1	7	28	22	15	10
Monthly total (million cu m)	88 32	76 42	81 58	19 55	10 75	24 54	10 46	9 63	7 00	18 60	37 99	49 73
Runoff (mm)	54	16	50	12	7	15	6	6	4	11	23	30
Rainfall (mm)	42	30	87	16	37	132	18	63	52	74	69	48

Statistics of monthly data for previous record (Oct 1940 to Dec 1981)

Mean flows	Avg	17 040	18 870	16 810	10 340	7 194	4 766	3 740	3 712	3 253	4 424	9 332	12 830
	Low	2 831	2 207	1 642	1 843	1 444	0 538	0 849	0 481	0 736	1 015	1 144	1 641
	(year)	1954	1965	1944	1976	1944	1944	1944	1944	1943	1947	1947	1947
	High	48 180	49 750	79 640	35 050	26 100	13 010	20 060	20 470	20 090	22 120	40 560	42 550
	(year)	1959	1977	1947	1979	1967	1977	1968	1980	1968	1960	1960	1954
Runoff	Avg	28	28	28	16	12	8	6	6	5	7	15	21
	Low	5	3	3	3	2	1	1	1	1	2	2	3
	High	79	74	131	56	43	21	33	34	32	36	64	70
Rainfall	Avg	55	42	47	42	53	53	53	65	53	52	60	56
	Low	20	3	5	8	10	5	6	3	3	5	10	13
	High	109	111	132	86	117	156	123	110	127	130	155	124

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	12 190	9 360	130
Lowest yearly mean			
Highest yearly mean			
Highest yearly mean			
Lowest monthly mean	2 699 Sep	0 481 Aug 1944	
Highest monthly mean	32 970 Jan	79 641 Mar 1947	
Lowest daily mean	1 097 17 Sep	0 085 29 Jun 1948	
Highest daily mean	61 650 3 Jan	319 800 18 Mar 1947	
Peak	64 890 3 Jan		
10 %ile	32 630		
50 %ile	6 474		
95 %ile	2 610		
Annual total (million cu m)	384 40	295 20	130
Annual runoff (mm)	235	181	130
Annual rainfall (mm)	668	631	106
[1941-70 rainfall average (mm)]		624	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions
- Augmentation from effluent returns

Station description

Group of weirs and sluices with regulated by-pass channels. High flows measured at alternative station Wansford 032010. Some river regulation by sluices. Harwell single path ultrasonic gauging station installed 1975

033002 Bedford Ouse at Bedford**1982**Measuring authority: AWA
First year: 1933Grid reference: TL 055495
Level stn (m OD) 24.75Catchment area (sq km) 1460.0
Max alt. (m OD): 247**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	82 800	14 000	13 200	11 700	5 400	3 900	4 500	3 300	2 150	3 600	5 300	13 000
2	77 100	13 100	17 800	11 700	5 400	4 400	4 200	3 100	2 150	4 000	5 300	11 900
3	84 800	13 000	14 000	10 800	5 400	10 800	4 100	2 900	2 240	6 200	5 400	11 400
4	60 800	12 000	13 800	10 500	5 300	9 500	3 300	2 500	1 740	9 300	5 600	10 100
5	42 400	11 400	11 200	9 900	6 000	5 900	3 500	2 700	1 900	14 200	5 400	9 300
6	48 200	12 000	11 100	11 500	5 400	5 200	3 300	3 000	2 150	9 200	5 300	8 300
7	35 900	13 000	35 500	13 400	5 300	5 900	3 300	4 100	2 240	5 900	6 000	11 100
8	25 700	13 400	58 200	15 300	5 200	4 900	3 200	2 700	1 980	5 000	5 300	24 100
9	17 700	13 500	44 700	13 500	4 500	3 200	3 100	2 600	1 900	7 400	10 500	31 900
10	14 800	12 800	41 300	11 700	4 800	2 800	3 000	2 300	1 900	7 200	10 700	51 800
11	17 400	12 300	59 500	10 800	4 500	3 400	2 900	2 240	1 740	5 600	7 300	60 800
12	17 000	16 200	55 600	9 800	4 800	3 800	2 800	2 240	1 660	4 000	7 400	63 400
13	14 100	19 500	50 800	8 500	4 800	5 100	2 600	2 300	1 660	4 200	15 900	45 800
14	12 100	25 500	30 100	8 700	4 300	4 300	3 100	2 300	1 660	6 400	16 700	38 000
15	11 400	19 800	38 000	8 400	4 300	4 600	4 900	2 800	1 980	7 700	31 900	33 900
16	12 000	16 300	66 200	8 000	4 600	2 800	5 400	2 700	2 800	5 900	45 800	33 900
17	19 100	13 900	92 400	7 700	4 500	3 100	4 400	2 600	1 000	5 800	39 100	25 700
18	43 900	13 700	90 400	7 400	3 900	3 400	3 800	2 500	1 280	6 400	26 500	20 500
19	59 500	13 800	47 000	7 400	4 300	3 400	2 900	2 240	1 900	5 600	18 000	20 900
20	54 300	13 700	39 100	7 400	4 300	4 600	2 800	1 980	1 980	6 000	13 500	45 800
21	45 800	12 300	32 900	7 600	4 200	4 300	2 700	1 900	2 300	8 200	14 400	43 500
22	37 000	11 500	27 400	6 200	4 800	5 200	2 900	1 900	3 800	28 600	34 800	27 400
23	33 900	10 800	22 600	5 900	5 000	7 800	2 500	1 900	3 500	35 700	44 700	21 200
24	27 400	9 800	19 200	5 300	5 800	8 700	2 600	1 900	3 500	29 200	44 700	17 900
25	21 900	9 200	16 900	5 700	5 300	11 800	2 800	1 900	3 800	15 000	53 100	19 400
26	22 600	10 000	15 900	5 400	4 900	15 300	2 700	1 880	2 700	8 300	54 300	18 200
27	25 000	10 400	14 700	5 300	8 100	10 300	2 700	2 070	3 300	8 500	32 900	16 400
28	21 600	10 500	14 100	5 100	8 700	10 400	2 400	2 300	3 800	7 200	21 900	15 300
29	18 500		13 400	5 300	5 800	6 600	2 240	2 150	3 800	6 400	16 300	13 800
30	16 800		13 100	5 400	4 800	5 300	2 150	1 900	3 800	5 200	20 500	12 600
31	14 800		12 300		4 400		2 150	1 900		5 200		12 100
Average	32 770	13 480	33 290	8 703	5 097	6 010	3 179	2 416	2 397	9 261	20 820	25 490
Lowest	11 400	9 200	11 100	5 100	3 900	2 800	2 150	1 900	1 000	3 600	5 300	9 300
Highest	82 800	25 500	92 400	15 300	8 700	15 300	5 400	4 100	3 800	35 700	54 300	63 400
Peak flow	88 000	26 500	113 000	16 200	13 100	20 200	6 500	4 800	4 300	36 700	55 600	67 000
Day of peak	1	14	17	8	27	26	15	7	24	23	28	12
Monthly total (million cu m)	87.77	32.57	89.16	22.56	13.65	16.68	8.51	6.47	6.21	24.81	63.96	68.27
Runoff (mm)	60	22	61	15	9	11	6	4	4	17	37	47
Rainfall (mm)	44	31	88	20	43	107	30	40	52	96	80	55

Statistics of monthly data for previous record (Apr 1933 to Dec 1981)

Mean flows:	Avg.	19 270	20 450	17 030	10 750	8 843	4 170	3 132	2 769	2 773	5 150	11 010	15 110
	Low	2 608	2 239	2 409	1 994	1 412	0 484	0 098	0 038	0 270	0 452	1 149	1 684
	(year)	1934	1934	1944	1976	1934	1934	1934	1934	1934	1934	1934	1964
	High	55 190	53 300	62 010	31 480	24 080	11 950	18 820	14 400	17 780	26 390	44 440	40 170
	(year)	1939	1977	1947	1951	1937	1954	1968	1980	1968	1966	1960	1960
Runoff:	Avg.	35	34	31	19	13	7	6	5	5	9	20	28
	Low	5	4	4	4	3	1	0	0	0	1	2	3
	High	101	88	114	56	44	21	35	26	32	48	79	74
Rainfall:	Avg.	59	43	49	43	55	51	54	63	53	58	64	59
(1936-1981)	Low	15	3	5	3	10	8	5	3	3	4	10	13
	High	124	111	140	84	109	119	120	138	105	137	178	128

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	13 620	9 822	139
Lowest yearly mean		2 401	1934
Highest yearly mean		18 890	1937
Lowest monthly mean	2 397	0 038	Aug 1934
Highest monthly mean	33 290	62 010	Mar 1947
Lowest daily mean	1 000	0 008	31 Aug 1934
Highest daily mean	92 400	278 100	15 Mar 1947
Peak	113 000		
10 %ile	36 240	28 150	139
50 %ile	7 399	4 367	169
95 %ile	1 974	0 882	224
Annual total (million cu m)	429.50	310.00	139
Annual runoff (mm)	294	212	139
Annual rainfall (mm)	686	651	105
[1941-70 rainfall average (mm)]		650]	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Flow influenced by groundwater abstraction and/or recharge.
- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from effluent returns

Station description

Three broad crested weirs, supplemented by three vertically lifting sluice gates for high flows

034006 Waveney at Needham Mill**1982**Measuring authority: AWA
First year: 1963Grid reference: TM 229811
Level stn. (m OD) 16.50Catchment area (sq km): 370.0
Max alt. (m OD): 65**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.050	2.415	1.430	0.955	0.574	0.563	1.098	0.329	0.329	0.387	0.921	1.861
2	11.700	2.289	1.671	0.973	0.586	0.536	0.928	0.305	0.323	0.532	0.879	1.808
3	11.560	2.113	1.832	0.942	0.593	0.548	0.921	0.326	0.308	1.343	0.830	1.573
4	7.787	1.797	1.668	0.851	0.590	0.522	0.804	0.316	0.297	1.105	0.810	1.279
5	7.797	1.675	1.305	0.795	0.574	0.488	0.671	0.329	0.305	2.793	0.766	1.348
6	9.442	1.501	1.208	0.952	1.011	0.413	0.621	0.386	0.442	2.085	0.720	1.419
7	5.230	1.713	1.200	1.021	1.085	0.408	0.583	0.356	0.475	1.551	0.728	1.707
8	3.988	2.992	1.149	0.970	0.751	0.415	0.546	0.339	0.398	1.909	0.845	3.848
9	2.876	2.694	1.190	0.848	0.832	0.429	0.474	0.320	0.387	1.423	0.867	15.500
10	2.591	2.325	1.935	0.793	0.605	0.415	0.465	0.308	0.345	1.133	0.782	26.290
11	2.187	2.094	2.075	0.770	0.587	0.446	0.472	0.309	0.350	0.920	0.756	19.140
12	1.830	1.941	2.707	0.756	0.541	0.488	0.451	0.299	0.314	0.834	0.849	9.555
13	1.503	2.074	2.681	0.755	0.519	0.587	0.465	0.305	0.302	0.865	1.065	4.789
14	1.189	1.848	2.063	0.722	0.502	0.527	0.447	0.322	0.328	0.993	1.147	3.770
15	1.329	1.736	2.073	0.672	0.497	0.490	0.441	0.383	0.330	0.891	3.575	4.122
16	1.198	1.664	2.182	0.652	0.538	0.485	0.431	0.371	0.331	0.741	5.735	3.835
17	1.375	1.579	1.992	0.617	0.644	0.462	0.395	0.362	0.332	0.793	5.267	3.010
18	1.355	1.543	1.768	0.606	0.587	0.520	0.385	0.362	0.329	0.879	3.866	2.420
19	1.465	1.405	1.940	0.602	0.553	0.548	0.362	0.376	0.334	1.059	2.887	2.557
20	1.959	1.345	4.452	0.584	0.496	0.487	0.367	0.372	0.348	0.945	2.147	4.528
21	2.925	1.272	3.602	0.583	0.512	0.470	0.354	0.337	0.409	1.410	1.920	3.324
22	3.573	1.272	2.669	0.557	0.520	0.599	0.367	0.324	0.465	8.848	5.092	2.441
23	4.812	1.239	2.018	0.557	0.545	0.880	0.355	0.312	0.470	10.820	5.350	1.900
24	4.029	1.187	1.646	0.551	0.540	0.704	0.360	0.326	0.458	5.405	8.524	1.965
25	4.008	1.188	1.614	0.550	0.522	0.603	0.370	0.341	0.460	2.978	10.790	2.042
26	6.288	1.152	1.510	0.534	0.508	1.071	0.351	0.347	0.485	2.116	8.955	2.186
27	5.722	1.187	1.427	0.552	1.233	2.018	0.342	0.344	0.445	1.881	4.886	2.194
28	4.318	1.161	1.368	0.549	1.290	1.388	0.342	0.316	0.381	1.168	3.206	1.883
29	3.621		1.268	0.518	0.810	1.520	0.335	0.288	0.418	0.914	2.402	1.654
30	3.253		1.117	0.635	0.840	1.413	0.333	0.283	0.434	1.027	1.990	1.577
31	2.674		0.998		0.585		0.324	0.308		0.946		1.549
Average	4.568	1.729	1.863	0.710	0.651	0.681	0.488	0.331	0.376	1.951	2.952	4.414
Lowest	1.189	1.152	0.998	0.518	0.496	0.406	0.324	0.283	0.297	0.387	0.720	1.229
Highest	18.050	2.992	4.452	1.021	1.290	2.018	1.088	0.376	0.475	10.820	10.790	26.290
Peak flow	23.850	3.112	4.957	1.060	1.811	2.478	1.249	0.479	0.497	11.860	11.830	27.460
Day of peak	1	8	20	7	27	27	1	20	6	23	25	10
Monthly total (million cu m)	12.24	4.18	4.99	1.84	1.74	1.76	1.31	0.89	0.98	5.23	7.65	11.82
Runoff (mm)	33	11	13	5	5	5	4	2	3	14	21	32
Rainfall (mm)	32	17	40	9	57	83	16	42	48	116	62	49

Statistics of monthly data for previous record (Dec 1963 to Dec 1981)

Mean flows	Avg	3.832	3.680	2.739	1.841	1.088	0.592	0.500	0.503	0.975	0.838	1.869	2.926
Low		0.609	0.722	0.591	0.487	0.369	0.286	0.285	0.282	0.261	0.352	0.397	0.492
High		1973	1965	1973	1974	1974	1974	1974	1973	1964	1964	1964	1964
Runoff		7.132	10.870	7.866	5.182	3.255	1.019	0.880	1.250	9.754	2.912	8.852	8.380
High		1969	1979	1981	1981	1989	1971	1989	1968	1968	1974	1974	1985
Runoff		26	24	20	13	8	4	4	4	7	6	13	21
Low		4	5	4	3	3	2	2	2	2	3	3	4
High		62	70	55	36	24	7	8	9	68	21	62	61
Rainfall		50	40	44	44	43	47	65	51	55	48	68	56
Low		18	17	10	14	10	10	11	10	2	4	25	18
High		78	72	98	81	97	104	384	101	161	110	150	100

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	1.732	1.756	99
Lowest yearly mean		0.537	
Highest yearly mean		2.730	
Lowest monthly mean	0.331	0.281	1973
Highest monthly mean	4.568	10.670	1969
Lowest daily mean	0.283	0.189	Sep 1964
Highest daily mean	26.290	89.760	Feb 1979
Peak	27.480	113.300	23 Aug 1973
10 %ile	3.682	4.160	16 Sep 1968
50 %ile	0.885	0.742	
95 %ile	0.323	0.320	
Annual total (million cu m)	54.82	55.42	
Annual runoff (mm)	148	150	
Annual rainfall (mm)	571	609	
[1941-70 rainfall average (mm)]		603	

Factors affecting flow regime

- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater

Station description

Compound Crump weir in main channel plus single crested Crump in mill bypass.

036006 Stour at Langham

1982

Measuring authority AWA
First year 1962

Grid reference TM 020344
Level stn (m OD) 6.40

Catchment area (sq km) 578.0
Max alt (m OD) 128

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	35 680	3 505	2 747	2 431	1 822	1 179	2 370	1 026	1 194	1 007	2 094	3 416
2	21 980	3 556	2 280	2 459	1 613	1 259	2 122	1 001	1 201	1 560	2 071	3 240
3	25 160	3 365	2 250	2 387	1 318	1 232	2 023	0 878	1 184	9 327	1 878	2 958
4	23 560	2 863	2 211	2 289	1 719	1 374	1 817	1 541	1 144	6 841	1 810	2 708
5	13 280	2 138	2 179	2 186	1 580	1 308	1 772	3 597	1 313	7 297	1 697	2 645
6	13 610	2 077	1 942	2 366	1 849	1 282	1 718	2 619	1 278	6 469	1 391	3 087
7	7 693	2 703	2 121	2 372	2 223	2 816	1 551	1 295	1 250	4 043	1 558	4 050
8	5 721	4 064	1 992	2 474	1 825	1 342	1 374	1 322	1 312	10 170	1 852	12 750
9	4 679	3 267	2 091	2 388	1 705	1 336	1 352	1 297	1 277	10 420	2 184	17 620
10	3 320	2 857	2 675	2 030	1 497	1 269	1 480	1 273	1 212	3 757	2 231	29 830
11	3 866	2 930	3 781	2 191	1 707	1 318	1 785	1 075	1 148	3 244	1 988	38 300
12	3 145	3 175	2 922	2 083	1 740	1 431	1 605	1 485	1 083	2 559	1 959	23 250
13	2 666	3 250	3 614	2 014	1 557	1 373	1 192	1 344	0 861	1 582	2 472	10 050
14	2 480	4 317	2 906	2 047	1 646	1 291	1 470	1 306	1 108	2 398	3 429	6 760
15	2 556	3 815	3 070	1 917	1 586	1 209	1 649	1 285	1 144	2 266	13 940	9 463
16	2 472	2 957	3 353	2 117	1 622	1 144	1 628	1 174	1 033	1 794	15 270	9 165
17	2 423	2 830	4 957	1 982	1 907	1 100	1 445	1 165	0 991	1 979	18 020	6 601
18	2 405	2 962	3 984	2 013	1 892	1 338	1 362	1 369	1 002	4 427	14 710	5 288
19	2 579	2 837	3 961	1 984	1 707	1 533	1 364	1 283	1 031	4 595	9 512	4 712
20	4 209	2 674	12 970	1 824	1 606	1 382	1 361	1 238	0 979	2 952	5 821	7 460
21	6 429	2 830	10 750	1 980	1 610	1 335	1 374	1 079	1 125	4 912	4 099	5 865
22	6 759	2 645	6 784	1 761	1 640	1 650	1 249	1 230	1 146	16 380	13 020	4 295
23	14 500	2 485	4 649	1 896	1 596	2 049	1 230	1 124	1 052	25 530	11 880	3 972
24	14 200	2 080	3 507	1 736	1 571	1 846	1 708	1 225	0 889	27 400	18 070	3 747
25	8 314	2 397	3 162	1 981	1 537	1 735	1 537	1 357	1 243	10 670	22 090	3 892
26	11 290	2 315	3 321	1 793	1 363	3 007	1 203	1 350	1 317	5 722	18 370	4 438
27	11 540	2 114	3 430	1 259	2 600	4 735	1 225	1 403	0 989	4 002	9 292	4 092
28	7 332	2 151	3 136	1 688	2 734	2 721	1 215	1 006	0 924	2 924	5 964	3 375
29	5 769		3 001	1 590	1 902	3 880	1 177	1 243	0 976	2 646	3 886	3 566
30	5 343		3 083	1 614	1 258	3 831	1 110	1 156	1 092	2 451	3 790	3 151
31	4 333		2 581		1 271		1 110	1 140		2 015		2 919
Average	8 993	2 899	3 719	2 078	1 716	1 810	1 485	1 350	1 117	6 237	7 212	7 957
Lowest	2 405	2 077	1 942	1 259	1 258	1 100	1 110	0 878	0 861	1 007	1 391	2 645
Highest	35 680	4 317	12 920	2 474	2 734	4 735	2 320	3 597	1 317	27 400	22 090	38 300
Peak flow	42 200	6 144	16 300	3 847	3 543	5 784	3 084	5 061	1 762	34 570	22 640	39 060
Day of peak	1	8	20	28	27	27	1	5	25	24	25	11
Monthly total (million cu m)	24 09	7 01	9 96	5 26	4 60	4 69	3 98	3 61	2 89	16 70	18 69	21 31
Runoff (mm)	42	12	17	9	8	8	7	6	5	29	32	37
Rainfall (mm)	41	20	47	11	59	100		57	39	128	76	58

Statistics of monthly data for previous record (Oct 1962 to Dec 1981)

Mean flows	Avg	4 946	5 088	5 017	3 359	2 331	1 243	0 899	0 884	1 049	1 378	2 542	3 924
	Low	1 398	0 884	1 597	1 218	0 758	0 453	0 190	0 209	0 395	0 509	0 578	0 693
	(year)	1965	1965	1976	1974	1974	1965	1976	1964	1970	1964	1964	1964
	High	9 053	12 980	9 776	7 508	5 527	2 457	1 655	2 080	4 955	5 078	11 340	10 550
	(year)	1971	1979	1981	1975	1978	1971	1980	1968	1968	1974	1974	1965
Runoff	Avg	23	21	23	15	11	6	4	4	5	6	11	18
	Low	6	4	7	5	4	2	1	1	2	2	3	3
	High	42	54	45	34	26	11	8	10	22	24	51	49
Rainfall	Avg	47	38	47	45	45	47	45	51	53	45	61	52
	Low	15	16	12	12	12	10	8	11	1	3	20	13
	High	70	63	93	71	79	91	87	105	118	98	155	107

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	3 894	2 711	144
Lowest yearly mean		1 428	1973
Highest yearly mean		4 077	1979
Lowest monthly mean	1 117 Sep	0 190 Jul 1976	
Highest monthly mean	8 993 Jan	12 980 Feb 1979	
Lowest daily mean	0 861 13 Sep	0 094 9 Jul 1976	
Highest daily mean	38 300 11 Dec	42 940 31 Dec 1981	
Peak	42 200 1 Jan	43 850 31 Dec 1981	
10 %ile	9 233	6 058	152
50 %ile	2 119	1 483	143
95 %ile	1 087	0 482	226
Annual total (million cu m)	122 80	85 55	144
Annual runoff (mm)	212	148	144
Annual rainfall (mm)	657	574	114
[1941-70 rainfall average (mm)]		601]	

Factors affecting flow regime

- Flow reduced by industrial and/or agricultural abstractions
- Augmentation from surface water and/or groundwater
- Augmentation from effluent returns

Station description

Twin-throated trapezoidal critical depth flume. Flow augmented as part of Ely-Ouse transfer scheme

038003 Mimram at Panshanger Park**1982**Measuring authority: TWA
First year: 1952Grid reference: TL 282133
Level stn. (m OD) 47.10Catchment area (sq km): 133.9
Max alt. (m OD): 193

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.718	0.623	0.679	0.732	0.621	0.507	0.494	0.371	0.337	0.318	0.428	0.550
2	0.724	0.625	0.665	0.693	0.639	0.530	0.488	0.541	0.335	0.766	0.429	0.548
3	0.620	0.624	0.647	0.687	0.664	0.508	0.492	0.389	0.340	0.446	0.437	0.545
4	0.612	0.627	0.623	0.681	0.601	0.498	0.477	0.481	0.337	0.622	0.430	0.539
5	0.680	0.633	0.615	0.644	0.617	0.725	0.536	0.389	0.462	0.408	0.425	0.578
6	0.601	0.623	0.615	0.747	0.684	0.584	0.473	0.382	0.340	0.386	0.427	0.554
7	0.591	0.663	0.627	0.693	0.627	0.505	0.469	0.370	0.330	0.448	0.510	0.655
8	0.609	0.574	0.622	0.670	0.611	0.492	0.472	0.372	0.320	0.494	0.528	0.752
9	0.610	0.564	0.798	0.650	0.586	0.484	0.480	0.372	0.318	0.400	0.449	1.150
10	0.594	0.562	0.808	0.636	0.581	0.554	0.467	0.361	0.375	0.394	0.440	1.040
11	0.595	0.598	0.696	0.641	0.578	0.577	0.437	0.383	0.324	0.387	0.436	0.734
12	0.590	0.616	0.687	0.638	0.578	0.534	0.427	0.360	0.324	0.399	0.604	0.743
13	0.572	0.623	0.556	0.638	0.576	0.495	0.420	0.430	0.326	0.469	0.466	0.693
14	0.575	0.574	0.633	0.633	0.581	0.482	0.503	0.391	0.329	0.396	0.655	0.736
15	0.592	0.570	0.876	0.638	0.584	0.483	0.584	0.427	0.331	0.378	0.562	0.700
16	0.611	0.586	0.801	0.627	0.557	0.479	0.454	0.384	0.329	0.437	0.544	0.676
17	0.597	0.630	0.788	0.674	0.555	0.497	0.431	0.376	0.332	0.457	0.494	0.678
18	0.610	0.635	0.723	0.636	0.547	0.645	0.422	0.373	0.328	0.412	0.485	0.665
19	0.604	0.619	0.753	0.622	0.534	0.606	0.430	0.371	0.339	0.373	0.487	0.896
20	0.650	0.617	0.735	0.611	0.537	0.504	0.401	0.373	0.330	0.422	0.472	0.728
21	0.651	0.634	0.702	0.616	0.552	0.495	0.402	0.363	0.395	0.741	0.693	0.702
22	0.687	0.631	0.699	0.619	0.552	0.620	0.401	0.377	0.323	0.904	0.561	0.681
23	0.644	0.631	0.693	0.605	0.602	0.559	0.399	0.354	0.345	0.495	0.800	0.689
24	0.629	0.626	0.708	0.597	0.585	0.515	0.399	0.419	0.483	0.456	0.712	0.684
25	0.646	0.629	0.698	0.602	0.529	0.694	0.404	0.364	0.356	0.445	0.665	0.671
26	0.716	0.612	0.711	0.608	0.673	0.856	0.368	0.361	0.352	0.444	0.588	0.671
27	0.639	0.636	0.673	0.605	0.910	0.566	0.372	0.360	0.343	0.422	0.570	0.670
28	0.632	0.637	0.658	0.611	0.576	0.581	0.371	0.348	0.325	0.413	0.561	0.664
29	0.651	0.744	0.744	0.614	0.549	0.505	0.358	0.345	0.410	0.411	0.553	0.663
30	0.626	0.693	0.693	0.617	0.547	0.496	0.440	0.385	0.337	0.427	0.551	0.659
31	0.625	0.696	0.696	0.522	0.522	0.399	0.399	0.353	0.427	0.427	0.662	0.662
Average	0.629	0.614	0.697	0.641	0.594	0.552	0.441	0.383	0.348	0.464	0.532	0.696
Lowest	0.572	0.562	0.556	0.597	0.522	0.479	0.358	0.345	0.318	0.318	0.425	0.539
Highest	0.724	0.663	0.876	0.747	0.910	0.858	0.584	0.541	0.483	0.904	0.800	1.150
Peak flow	0.990	0.804	1.240	0.883	2.020	1.400	0.910	1.100	0.817	1.740	1.110	1.900
Day of peak	1	12	9	6	27	28	15	2	24	4	23	9
Monthly total (million cu m)	1.69	1.49	1.87	1.66	1.59	1.43	1.18	1.03	0.90	1.24	1.38	1.86
Runoff (mm)	13	11	14	12	12	11	9	8	7	9	10	14
Rainfall (mm)	44	22	74	16	57	112	30	41	50	123	85	62

Statistics of monthly data for previous record (Dec 1952 to Dec 1981)

Mean flows	Avg	0.573	0.641	0.672	0.658	0.612	0.551	0.485	0.450	0.421	0.408	0.444	0.499
	Low	0.245	0.289	0.258	0.260	0.216	0.186	0.163	0.145	0.195	0.175	0.176	0.189
	(year)	1974	1973	1973	1973	1976	1976	1976	1976	1973	1973	1973	1973
	High	1.102	1.167	1.119	1.050	1.084	0.971	0.803	0.764	0.617	0.638	0.739	1.005
	(year)	1981	1961	1961	1978	1979	1979	1979	1979	1968	1968	1960	1960
Runoff	Avg	11	12	13	13	12	11	10	9	8	8	9	10
	Low	5	5	5	5	4	4	3	3	4	4	3	4
	High	22	21	22	20	22	18	16	15	12	13	14	20
Rainfall	Avg	54	44	49	45	48	57	58	59	56	58	61	63
	Low	17	3	3	5	15	5	5	7	5	5	20	13
	High	107	96	116	82	109	122	123	127	121	142	151	118

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	0.549	0.534	103
Lowest yearly mean		0.231	
Highest yearly mean		0.767	
Lowest monthly mean	0.348 Sep	0.145 Aug 1976	
Highest monthly mean	0.697 Mar	1.167 Feb 1961	
Lowest daily mean	0.318 9 Sep	0.135 21 Aug 1976	
Highest daily mean	1.150 9 Dec	1.795 30 May 1979	
Peak	2.020 27 May	3.541 30 May 1979	
10 %ile	0.702	0.796	88
50 %ile	0.567	0.507	112
95 %ile	0.338	0.227	149
Annual total (million cu m)	17.32	16.85	103
Annual runoff (mm)	129	126	103
Annual rainfall (mm)	718	650	110
[1941-70 rainfall average (mm)]		645]	

Factors affecting flow regime

- Flow influenced by groundwater abstraction and/or recharge.
- Flow reduced by industrial and/or agricultural abstractions

Station description

Trapezoidal critical depth flume measures up to 11.3 cu m/s

038007 Canons Brook at Elizabeth Way

1982

Measuring authority: TWA
First year: 1950
Grid reference: TL 431104
Level stn. (m OD) 37.54
Catchment area (sq km): 21.4
Max alt. (m OD): 110

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.908	0.165	0.370	0.149	0.093	0.080	0.092	0.060	0.071	0.070	0.092	0.143
2	1.042	0.151	0.293	0.137	0.156	0.083	0.090	0.072	0.070	2.160	0.094	0.129
3	0.456	0.135	0.343	0.131	0.215	0.081	0.084	0.067	0.068	0.504	0.088	0.120
4	0.319	0.123	0.303	0.131	0.077	0.398	0.078	0.455	0.072	0.929	0.084	0.121
5	0.492	0.123	0.203	0.150	0.248	0.110	0.079	0.086	0.072	0.328	0.084	0.213
6	0.266	0.121	0.173	0.393	0.103	0.104	0.077	0.075	0.072	0.169	0.083	0.161
7	0.194	0.476	0.156	0.461	0.072	0.079	0.079	0.075	0.068	0.340	0.177	0.511
8	0.164	0.248	0.158	0.262	0.068	0.080	0.078	0.073	0.070	0.516	0.399	1.870
9	0.150	0.192	0.497	0.180	0.068	0.083	0.078	0.078	0.071	0.249	0.216	3.080
10	0.141	0.161	0.568	0.156	0.071	0.125	0.072	0.078	0.073	0.145	0.155	1.530
11	0.130	0.178	0.353	0.143	0.069	0.106	0.069	0.062	0.074	0.210	0.130	0.523
12	0.117	0.275	0.698	0.135	0.072	0.238	0.069	0.062	0.073	0.226	0.466	0.775
13	0.110	0.277	0.262	0.131	0.076	0.086	0.071	0.218	0.074	0.443	0.200	0.428
14	0.104	0.209	0.209	0.132	0.079	0.078	0.318	0.224	0.075	0.299	0.757	0.541
15	0.112	0.166	0.523	0.135	0.081	0.082	0.676	0.255	0.077	0.149	0.587	0.424
16	0.300	0.145	0.373	0.095	0.083	0.080	0.099	0.104	0.058	0.251	0.616	0.268
17	0.380	0.220	0.402	0.091	0.146	0.358	0.069	0.094	0.059	0.329	0.340	0.202
18	0.758	0.199	0.314	0.091	0.072	0.510	0.063	0.180	0.058	0.449	0.253	0.154
19	0.613	0.160	0.356	0.091	0.069	0.710	0.063	0.101	0.092	0.202	0.200	0.912
20	0.563	0.141	0.267	0.093	0.070	0.142	0.061	0.092	0.101	0.307	0.168	0.376
21	0.376	0.131	0.217	0.092	0.140	0.091	0.058	0.092	0.199	2.060	0.728	0.225
22	0.545	0.121	0.192	0.091	0.106	0.271	0.057	0.107	0.061	2.450	0.467	0.171
23	0.440	0.116	0.164	0.089	0.152	0.280	0.059	0.102	0.150	0.481	1.880	0.178
24	0.280	0.118	0.154	0.087	0.073	0.120	0.058	0.195	1.510	0.276	1.560	0.179
25	0.354	0.115	0.162	0.089	0.068	0.991	0.058	0.069	0.683	0.273	0.885	0.158
26	0.802	0.122	0.149	0.089	0.444	1.870	0.060	0.170	0.142	0.184	0.401	0.149
27	0.343	0.115	0.149	0.093	0.496	0.099	0.058	0.078	0.087	0.140	0.273	0.198
28	0.285	0.199	0.144	0.089	0.092	0.128	0.060	0.069	0.072	0.119	0.200	0.137
29	0.371		0.220	0.096	0.073	0.218	0.059	0.069	0.286	0.106	0.164	0.113
30	0.240		0.138	0.091	0.069	0.084	0.194	0.089	0.065	0.099	0.149	0.106
31	0.193		0.131		0.069		0.076	0.074		0.094		0.102
Average	0.365	0.175	0.278	0.140	0.122	0.252	0.102	0.118	0.157	0.468	0.390	0.457
Lowest	0.104	0.115	0.131	0.087	0.068	0.076	0.057	0.060	0.058	0.070	0.083	0.102
Highest	1.042	0.476	0.698	0.461	0.496	1.870	0.676	0.455	1.510	2.450	1.880	3.060
Peak flow	2.435	1.190	2.800	1.600	3.220	7.540	5.570	4.980	8.000	6.140	4.630	7.720
Day of peak	2	7	12	7	26	25	15	4	24	22	23	8
Monthly total (million cu m)	0.98	0.42	0.75	0.38	0.33	0.65	0.27	0.32	0.41	1.25	1.01	1.22
Runoff (mm)	46	20	35	17	15	31	13	15	19	59	47	57
Rainfall (mm)	49	24	59	20	51	152	31	61	55	122	73	69

Statistics of monthly data for previous record (Oct 1965 to Dec 1981—incomplete or missing months total 0.4 years)

Mean flows	Avg	0.301	0.313	0.263	0.192	0.185	0.119	0.112	0.122	0.122	0.144	0.213	0.261
	Low	0.059	0.062	0.054	0.074	0.073	0.067	0.060	0.034	0.056	0.043	0.057	0.092
	(year)	1973	1973	1973	1974	1974	1973	1977	1976	1969	1972	1978	1973
	High	0.470	0.883	0.468	0.385	0.420	0.249	0.210	0.194	0.294	0.332	0.794	0.507
	(year)	1978	1977	1979	1966	1978	1971	1968	1977	1974	1974	1974	1985
Runoff	Avg	36	36	33	23	23	14	14	15	15	18	26	33
	Low	7	7	7	9	8	8	8	4	7	6	7	11
	High	59	100	59	47	53	30	26	24	38	42	96	64
Rainfall	Avg	53	40	51	39	53	46	45	55	58	49	61	53
(1967)	Low	14	12	10	13	16	19	14	2	9	3	18	21
(1981)	High	91	84	92	58	98	90	90	131	138	114	152	115

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	0.253	0.195	130
Lowest yearly mean		0.095	1973
Highest yearly mean		0.241	1979
Lowest monthly mean	0.102	0.034	Aug 1976
Highest monthly mean	0.468	0.883	Feb 1977
Lowest daily mean	0.057	0.025	5 Sep 1976
Highest daily mean	3.060	5.369	5 May 1978
Peak	8.000	11.700	30 May 1979
10 %ile	0.506	0.406	125
50 %ile	0.142	0.103	137
95 %ile	0.067	0.046	146
Annual total (million cu m)	7.97	6.16	129
Annual runoff (mm)	373	288	129
Annual rainfall (mm)	766	603	127
[1941-70 rainfall average (mm)]		613]	

Station description

Rectangular critical depth flume. Crump weir installed for low flow measurement in 1965; removed 1980.

Factors affecting flow regime

039001 Thames at Kingston**1982**Measuring authority: TWA
First year: 1975Grid reference: TQ 177698
Level stn. (m OD) 5.0Catchment area (sq km): 9948.0
Max alt. (m OD): 330

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	250 000	100 000	94 700	82 400	44 000	18 000	32 100	14 700	15 400	18 900	44 700	94 800
2	275 000	97 000	122 000	77 900	46 900	25 600	32 300	14 000	15 400	41 500	37 000	86 800
3	282 000	89 400	123 000	81 100	52 900	28 900	31 300	11 700	15 100	88 300	36 200	78 700
4	278 000	84 100	136 000	77 000	59 700	32 700	24 600	13 200	15 000	71 500	35 600	79 600
5	270 000	82 500	103 000	74 500	52 600	31 200	20 700	13 000	14 400	106 000	36 300	78 300
6	247 000	83 900	79 500	96 500	75 600	39 000	18 200	15 700	15 400	61 400	30 800	82 700
7	197 000	108 000	141 000	133 000	58 600	39 500	18 300	27 100	15 300	40 100	36 100	83 300
8	173 000	125 000	194 000	133 000	45 000	33 900	15 200	16 600	10 700	44 700	71 800	140 000
9	141 000	109 000	194 000	116 000	43 800	31 600	16 000	12 700	11 200	43 000	85 000	230 000
10	121 000	96 400	241 000	84 400	41 600	27 000	16 400	9 760	11 800	34 800	77 200	328 000
11	127 000	93 200	225 000	80 600	36 000	17 800	16 700	9 180	11 100	36 900	52 800	310 000
12	139 000	100 000	212 000	86 000	41 600	23 000	16 000	11 000	9 560	32 100	93 000	282 000
13	104 000	144 000	211 000	78 600	40 100	27 000	14 700	11 600	9 660	30 000	143 000	288 000
14	101 000	167 000	180 000	71 900	33 600	24 900	16 400	12 200	9 500	96 600	120 000	228 000
15	93 200	148 000	168 000	69 400	28 900	19 700	30 900	15 500	11 000	69 900	119 000	203 000
16	118 000	115 000	252 000	66 200	30 700	19 500	35 100	14 200	11 500	45 900	138 000	182 000
17	146 000	103 000	261 000	64 900	31 400	17 800	16 800	9 450	12 100	91 600	129 000	160 000
18	209 000	98 900	253 000	64 200	29 000	17 400	20 200	10 300	11 000	90 200	110 000	130 000
19	235 000	96 300	250 000	60 000	28 300	24 500	18 000	13 400	11 800	71 200	93 200	140 000
20	235 000	92 000	243 000	60 700	30 700	25 200	15 700	12 700	11 000	38 900	78 300	232 000
21	235 000	79 600	196 000	55 000	30 200	32 800	13 000	10 200	14 800	93 600	78 100	223 000
22	229 000	82 700	152 000	55 800	33 700	42 700	13 100	8 680	14 900	224 000	164 000	205 000
23	202 000	82 400	144 000	53 500	39 500	70 400	13 300	9 150	11 000	241 000	174 000	176 000
24	170 000	78 100	128 000	51 900	40 100	38 900	11 000	8 880	16 800	124 000	244 000	142 000
25	146 000	60 400	120 000	48 700	33 800	45 000	12 000	10 200	29 300	79 200	289 000	133 000
26	144 000	82 100	113 000	44 900	32 900	65 300	12 100	12 400	17 700	87 600	283 000	133 000
27	145 000	82 000	105 000	45 500	60 400	49 200	12 400	17 200	25 900	56 900	203 000	120 000
28	131 000	82 500	101 000	48 200	42 800	47 300	11 500	16 300	34 200	48 300	146 000	112 000
29	118 000	102 000	48 700	41 400	48 400	12 100	11 300	28 600	46 100	124 000	103 000	103 000
30	113 000	102 000	44 800	32 300	31 900	19 000	14 600	29 600	43 300	93 500	98 100	98 100
31	104 000	82 800	26 100	26 100	16 400	16 300	16 300	35 700	35 700	95 500	95 500	95 500
Average	176 700	99 300	162 200	71 840	40 720	33 200	18 440	13 000	15 690	71 970	110 900	160 600
Lowest	93 200	78 100	79 500	44 600	26 100	17 400	11 000	8 680	9 500	18 900	30 800	78 300
Highest	282 000	167 000	261 000	133 000	75 600	70 400	35 100	27 100	34 200	241 000	289 000	328 000
Peak flow	297 000	195 000	271 000	175 000	86 300	95 000	55 800	44 400	46 900	280 000	283 000	346 000
Day of peak	4	14	17	7	6	23	16	7	21	23	26	10
Monthly total (million cu m)	473 30	240 20	434 50	185 70	109 10	86 06	49 38	34 82	40 67	192 80	287 30	430 00
Runoff (mm)	48	24	44	19	11	9	5	4	4	19	29	43
Rainfall (mm)	48	38	87	24	45	95	33	50	65	119	97	79

Statistics of monthly data for previous record (Jan 1883 to Dec 1881)

Mean flows	Avg	126 800	124 900	105 700	74 750	53 750	37 130	23 910	22 410	24 080	38 770	73 070	102 000
Low	18 570	12 290	9 428	8 975	4 391	3 302	2 080	1 912	0 888	3 157	7 484	10 210	10 210
(year)	1976	1976	1976	1976	1976	1976	1976	1976	1976	1976	1976	1976	1976
High	325 300	342 000	359 500	188 800	171 700	171 600	72 280	79 330	123 900	179 800	334 000	333 900	333 900
(year)	1915	1904	1947	1916	1932	1903	1968	1931	1927	1903	1894	1929	1929
Runoff	Avg	34	31	29	20	14	10	7	6	6	11	19	27
	Low	7	4	4	5	2	2	1	1	1	1	2	3
	High	88	86	97	49	46	45	19	21	32	48	87	90
Rainfall	Avg	64	50	52	48	54	52	59	65	58	72	72	72
	Low	18	3	3	3	8	3	8	3	3	5	8	13
	High	137	127	142	104	137	137	130	147	157	188	188	185

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	81 300	87 000	121
Lowest yearly mean		20 410	
Highest yearly mean		120 000	
Lowest monthly mean	13 000	0 688	1934
Highest monthly mean	176 700	359 500	1951
Lowest daily mean	6 680	0 010	11 Oct 1976
Highest daily mean	328 000	1059 000	18 Nov 1894
Peak	346 000	10 Dec	
10 %ile	200 300	163 100	123
50 %ile	59 240	42 090	141
95 %ile	11 140	9 188	122
Annual total (million cu m)	2564.00	2114.00	121
Annual runoff (mm)	258	213	121
Annual rainfall (mm)	780	718	109
[1941-70 rainfall average (mm)]		682]	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Flow influenced by groundwater abstraction and/or recharge.
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater
- Augmentation from effluent returns.

Station description

Ultrasonic gauging station installed 1975. Earlier data derived from the Teddington gauging station - a low flow gauging weir with adjustable crest 21.3 m broad, two roller sluices each 10.7 m broad, 35 vertically lifting gates total breadth 68.2 m, and 34 radial gates each 3.07 m broad. Naturalised flows are determined by taking account of abstractions for public water supply.

039001 Thames at Kingston**1982**Measuring authority: TWA
First year: 1975Grid reference: TQ 177698
Level stn. (m OD) 5.0Catchment area (sq km): 9948.0
Max alt. (m OD): 330**Daily mean naturalised discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	265 000	122 000	118 000	104 000	63 500	40 200	51 700	34 100	29 900	37 300	60 500	113 000
2	291 000	120 000	143 000	98 800	64 100	48 600	49 800	33 400	29 100	59 900	55 400	103 000
3	297 000	112 000	145 000	102 000	63 200	48 600	46 500	31 200	27 900	107 000	54 600	94 500
4	295 000	107 000	157 000	98 400	70 300	47 700	40 100	33 200	27 800	89 900	54 000	95 400
5	287 000	104 000	125 000	98 600	71 500	47 200	41 400	33 300	27 700	122 000	57 300	96 700
6	284 000	109 000	103 000	118 000	95 900	60 000	40 900	35 600	29 300	74 600	51 800	101 000
7	214 000	131 000	164 000	144 000	77 100	59 500	40 000	46 700	33 800	53 300	57 100	93 800
8	187 000	148 000	217 000	148 000	65 100	53 000	37 500	34 100	29 600	57 900	92 800	153 000
9	156 000	130 000	214 000	132 000	62 900	47 300	38 400	31 500	29 800	56 200	106 000	243 000
10	135 000	117 000	257 000	102 000	62 100	45 100	37 500	29 400	29 700	53 200	95 600	344 000
11	140 000	113 000	242 000	98 500	56 900	38 700	38 500	27 300	28 600	55 300	71 200	328 000
12	154 000	117 000	223 000	99 900	59 800	44 600	37 000	27 000	27 000	53 100	111 000	300 000
13	118 000	160 000	223 000	92 100	58 600	49 700	38 300	28 400	27 800	51 000	159 000	308 000
14	120 000	183 000	195 000	87 600	51 800	46 200	37 700	28 800	24 200	120 000	138 000	246 000
15	113 000	163 000	189 000	87 000	48 300	41 700	49 700	32 900	29 000	90 900	137 000	221 000
16	139 000	132 000	276 000	82 200	52 100	40 800	56 300	34 500	25 000	66 900	156 000	200 000
17	157 000	121 000	285 000	82 100	53 800	38 800	38 500	31 600	26 200	110 000	150 000	176 000
18	228 000	116 000	276 000	81 400	50 500	38 500	42 300	30 500	25 400	109 000	128 000	146 000
19	254 000	117 000	271 000	77 300	50 000	45 000	40 200	31 300	26 400	89 600	112 000	158 000
20	254 000	113 000	264 000	78 300	51 100	45 900	37 600	31 200	25 600	57 300	99 300	250 000
21	255 000	101 000	216 000	73 600	50 100	48 800	34 600	28 500	28 700	115 000	96 500	239 000
22	249 000	103 000	172 000	74 400	51 500	58 800	34 600	27 400	32 400	240 000	185 000	223 000
23	225 000	97 800	162 000	72 900	59 800	80 700	35 200	27 500	29 900	257 000	192 000	194 000
24	192 000	92 500	138 000	71 400	59 300	51 800	33 100	29 000	35 100	140 000	262 000	160 000
25	165 000	96 000	134 000	66 300	54 400	60 000	33 700	28 800	48 700	97 600	287 000	151 000
26	164 000	98 200	129 000	63 800	52 800	86 000	33 800	30 700	36 900	103 000	281 000	149 000
27	164 000	97 400	122 000	65 100	76 000	71 400	32 200	32 500	42 100	75 300	221 000	136 000
28	155 000	97 700	118 000	65 600	60 000	69 600	32 900	31 400	51 300	64 700	164 000	128 000
29	140 000	116 000	118 000	64 800	56 900	69 900	28 700	29 600	46 400	61 900	142 000	119 000
30	137 000	116 000	116 000	64 100	51 400	52 300	29 900	27 500	47 500	61 700	112 000	114 000
31	128 000	103 000	103 000	45 400	45 400	33 800	31 400	31 400	51 500	51 500	111 000	111 000
Average	194 900	118 500	181 000	89 740	59 540	52 550	38 710	31 300	31 940	89 750	129 600	177 200
Lowest	113 000	92 500	103 000	63 800	45 400	38 500	28 200	27 000	24 200	37 300	51 800	93 800
Highest	297 000	183 000	285 000	148 000	95 900	86 000	56 300	46 700	51 300	257 000	287 000	344 000

Monthly total (million cu m)	522 00	286 60	484 90	232 60	159 50	138 20	103 70	83 83	82 80	240 40	335 80	474 50
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Natified runoff (mm)	52	29	49	23	16	14	10	8	8	24	34	48
Rainfall (mm)	48	38	87	24	45	95	33	50	65	119	97	79

Statistics of monthly data for previous record (Jan 1883 to Dec 1981)

Mean	Avg.	137 000	135 100	116 100	85 130	64 370	47 930	34 860	32 380	34 380	49 380	83 380	112 100
natified	Low	32 200	25 080	27 340	26 570	18 200	13 470	10 770	11 030	11 250	15 120	17 730	22 470
flows:	(year)	1905	1905	1944	1976	1944	1944	1921	1976	1898	1934	1921	1921
	High	332 900	348 100	370 800	199 800	181 300	178 700	88 840	88 770	139 400	185 300	339 600	343 900
	(year)	1915	1904	1947	1951	1932	1903	1968	1931	1968	1903	1894	1929
Natified	Avg	37	33	31	22	17	12	9	9	9	13	22	30
runoff	Low	9	8	7	7	5	4	3	3	3	4	5	6
	High	90	88	100	52	49	47	24	24	36	50	88	93
Rainfall	Avg	64	50	52	48	54	52	59	65	58	72	72	72
	Low	18	3	3	3	8	3	8	3	3	5	8	13
	High	137	127	142	104	137	137	130	147	157	188	188	185

Summary statistics (naturalised flows)

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	99 660	77 410	129
Lowest yearly mean		30 940	
Highest yearly mean		131 800	
Lowest monthly mean	31 300	10 770	1934
Highest monthly mean	194 900	370 900	1947
Lowest daily mean	24 200	7 370	1934
Highest daily mean	344 000	1065 000	18 Nov 1894
10 %ile	218 500	172 600	127
50 %ile	75 310	52 740	143
95 %ile	28 400	18 060	157
Annual total (million cu m)	3143 00	2443 00	129
Annual runoff (mm)	316	246	129
Annual rainfall (mm)	780	718	109
(1941-70 rainfall average (mm))		682]	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Flow influenced by groundwater abstraction and/or recharge.
- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater.
- Augmentation from effluent returns.

Station description

Ultrasonic gauging station installed 1975. Earlier data derived from the Teddington gauging station - a low flow gauging weir with adjustable crest 21.3 m broad, two roller sluices each 10.7 m broad, 35 vertically lifting gates total breadth, 68.2 m, and 34 radial gates each 3.07 m broad. Naturalised flows are determined by taking account of abstractions for public water supply.

039007 Blackwater at Swallowfield**1982**Measuring authority: TWA
First year: 1952Grid reference: SU 731648
Level stn. (m OD) 42.28Catchment area (sq km): 354.8
Max alt. (m OD): 225**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.600	3.490	6.450	3.300	2.340	1.870	2.230	1.610	1.460	2.160	2.650	3.800
2	8.760	3.390	5.690	3.140	2.270	2.020	2.110	1.490	1.420	6.220	2.580	3.620
3	6.760	3.340	8.250	3.060	2.660	1.950	1.990	1.640	1.410	5.760	2.480	3.490
4	6.320	3.120	5.490	2.890	2.420	1.860	1.900	1.480	1.430	8.310	2.450	3.360
5	7.030	3.220	4.630	3.260	3.060	1.730	1.850	1.430	1.460	4.300	2.630	3.630
6	5.580	3.390	4.870	5.410	6.820	1.690	1.770	1.410	1.930	3.200	2.510	3.680
7	4.590	5.280	6.620	4.580	3.530	1.830	1.650	1.430	1.690	2.610	3.810	5.980
8	4.410	4.740	5.360	3.990	2.960	2.360	1.680	1.370	1.530	3.350	6.010	8.560
9	4.270	4.030	7.790	3.430	2.630	1.860	1.680	1.350	1.530	2.740	5.040	22.700
10	4.140	3.740	10.400	3.270	2.380	1.870	1.780	1.320	1.520	2.420	3.980	17.100
11	3.920	3.940	6.370	3.050	2.320	1.750	1.670	1.340	1.460	2.490	3.460	8.170
12	3.650	4.220	8.170	2.870	2.740	3.340	1.580	1.340	1.440	2.700	8.830	16.900
13	3.360	7.750	5.450	2.870	2.110	2.990	1.540	1.420	1.440	3.810	5.290	8.630
14	3.550	6.190	4.700	2.760	2.130	2.050	1.710	1.560	1.400	5.680	5.030	7.710
15	3.620	4.910	17.000	2.810	2.130	1.850	2.870	1.730	1.390	3.110	5.300	7.500
16	6.130	4.340	10.100	2.770	2.050	1.770	2.500	1.710	1.430	3.740	6.910	5.880
17	8.110	4.080	6.830	2.850	2.070	1.690	2.000	1.500	1.430	6.570	4.920	5.160
18	9.010	4.210	5.490	2.740	2.040	1.760	1.710	1.590	1.440	4.300	4.180	4.610
19	6.680	3.900	4.920	2.590	1.990	2.030	1.580	1.650	1.370	3.270	3.700	12.700
20	6.120	3.730	4.610	2.480	2.040	1.860	1.550	1.470	1.450	3.100	3.400	9.720
21	5.890	3.530	4.340	2.450	2.040	1.720	1.510	1.370	1.870	9.560	6.720	6.700
22	6.310	3.420	4.090	2.400	2.360	4.190	1.480	1.380	1.740	22.300	7.420	5.510
23	5.220	3.260	3.800	2.330	2.620	3.710	1.480	1.370	1.610	9.190	12.600	4.880
24	4.570	3.190	3.690	2.390	2.430	2.900	1.550	1.400	2.320	5.600	15.100	4.690
25	4.380	3.510	3.520	2.300	2.030	3.580	1.480	1.520	2.530	4.660	15.700	4.170
26	5.300	3.480	3.350	2.190	2.270	4.140	1.370	2.580	2.020	4.090	8.250	4.010
27	4.360	3.370	3.370	2.250	4.750	3.400	1.390	2.510	3.120	3.590	6.210	3.840
28	3.950	3.680	3.200	2.270	2.740	3.120	1.370	1.570	2.540	3.250	5.040	3.660
29	3.870		3.390	2.280	2.240	2.800	1.350	1.410	4.070	3.000	4.270	3.520
30	3.750		3.230	2.280	2.040	2.300	1.380	1.450	2.790	2.790	4.050	3.440
31	3.650		3.030		1.930		1.950	1.550		2.610		3.430
Average	5.415	4.016	5.571	2.909	2.569	2.393	1.729	1.547	1.808	4.854	5.684	6.779
Lowest	3.360	3.120	3.030	2.190	1.930	1.670	1.350	1.320	1.370	2.160	2.450	3.360
Highest	10.600	7.750	12.000	5.410	6.820	4.190	2.870	2.580	4.070	22.300	15.700	22.200
Peak flow	13.100	9.940	18.200	8.380	9.140	5.720	3.230	5.120	5.070	24.900	19.900	24.700
Day of peak	1	13	15	6	6	12	15	26	29	22	23	9
Monthly total (million cu m)	14.50	9.72	14.92	7.54	6.88	6.20	4.63	4.14	4.69	13.00	14.73	18.16
Runoff (mm)	41	27	42	21	19	17	13	12	13	37	42	51
Rainfall (mm)	46	40	82	20	59	79	32	48	64	135	107	84

Statistics of monthly data for previous record (Oct 1952 to Dec 1981)

Mean flows	Avg	4.575	4.105	3.778	2.952	2.478	1.927	1.426	1.481	1.825	2.460	3.318	3.942
Low	1.758	1.687	1.323	1.521	1.081	0.767	0.711	0.723	0.638	0.907	1.262	1.298	1.298
(year)	1954	1965	1953	1976	1958	1953	1953	1953	1959	1959	1964	1953	1953
High	8.000	7.292	6.898	5.600	5.946	6.472	2.316	2.622	6.609	7.613	8.019	7.022	7.022
(year)	1975	1966	1979	1966	1978	1971	1968	1977	1968	1960	1960	1960	1960
Runoff	Avg	35	28	29	22	19	14	11	11	13	19	24	30
Low	13	12	10	11	8	8	5	5	5	7	9	10	10
High	60	50	52	41	45	47	17	20	48	57	59	53	53
Rainfall	Avg	66	45	53	45	53	52	56	61	68	68	72	73
Low	15	5	3	8	8	5	18	17	3	5	18	18	18
High	124	108	125	106	128	144	104	117	167	208	179	167	167

Summary statistics**Factors affecting flow regime**

● Augmentation from effluent returns

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	3.777	2.850	133
Lowest yearly mean		1.466	1953
Highest yearly mean		3.730	1979
Lowest monthly mean	1.547	0.638	Sep 1959
Highest monthly mean	6.779	8.019	Nov 1960
Lowest daily mean	1.320	0.464	18 Aug 1953
Highest daily mean	22.300	39.200	16 Sep 1968
Peak	24.900	41.000	16 Sep 1968
10 %ile	6.735	5.459	123
50 %ile	3.112	2.067	151
95 %ile	1.408	0.848	166
Annual total (million cu m)	119.10	89.94	132
Annual runoff (mm)	336	254	132
Annual rainfall (mm)	796	712	112
[1941-70 rainfall average (mm)]		708]	

Station description

Critical depth flume and side weir 9 m broad 1970 onwards 2 Crump weirs, main 4.57 m broad, side 2.7 m broad

039020 Coln at Bibury**1982**Measuring authority: TWA
First year: 1963Grid reference SP 122082
Level stn (m OD) 100.65Catchment area (sq km) 106.7
Max alt. (m OD) 330**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2 830	3 090	2 260	2 650	1 420	0 913	0 745	0 567	0 530	0 493	0 711	2 220
2	3 040	3 030	2 280	2 540	1 410	0 919	0 751	0 560	0 512	0 500	0 718	2 190
3	3 090	3 010	2 310	2 440	1 410	0 958	0 738	0 555	0 501	0 499	0 714	2 120
4	3 130	2 970	2 250	2 420	1 420	0 904	0 729	0 559	0 495	0 506	0 722	2 080
5	3 230	2 920	2 260	2 380	1 400	0 879	0 713	0 588	0 514	0 529	0 742	2 010
6	3 220	2 790	2 450	2 430	1 350	0 867	0 705	0 574	0 511	0 526	0 766	1 990
7	3 250	2 770	2 720	2 440	1 320	0 842	0 690	0 554	0 506	0 520	0 796	2 070
8	3 300	2 680	2 820	2 330	1 310	0 866	0 674	0 547	0 496	0 521	0 842	2 060
9	3 190	2 680	3 070	2 260	1 290	0 840	0 675	0 542	0 491	0 532	0 893	2 170
10	3 280	2 610	3 240	2 190	1 270	0 823	0 676	0 555	0 486	0 533	0 880	2 380
11	3 290	2 580	3 270	2 150	1 250	0 790	0 672	0 554	0 478	0 507	0 973	2 450
12	3 190	2 570	3 340	2 110	1 240	0 843	0 685	0 541	0 475	0 511	1 200	2 630
13	3 080	2 570	3 320	2 070	1 230	0 838	0 673	0 554	0 472	0 519	1 270	2 780
14	2 800	2 560	3 320	2 030	1 210	0 821	0 704	0 565	0 486	0 538	1 400	2 810
15	2 850	2 550	3 650	2 000	1 200	0 809	0 687	0 575	0 484	0 531	1 500	2 840
16	2 910	2 570	3 660	1 970	1 180	0 806	0 648	0 587	0 475	0 545	1 600	2 850
17	2 870	2 540	3 720	1 940	1 160	0 808	0 638	0 553	0 476	0 574	1 640	2 830
18	2 940	2 500	3 800	1 900	1 130	0 845	0 634	0 558	0 469	0 577	1 680	2 780
19	3 020	2 500	3 880	1 860	1 110	0 831	0 631	0 553	0 478	0 572	1 700	2 980
20	3 140	2 480	3 790	1 810	1 090	0 802	0 620	0 548	0 486	0 589	1 740	2 970
21	3 260	2 470	3 740	1 790	1 080	0 811	0 614	0 547	0 499	0 626	1 890	2 930
22	3 470	2 440	3 600	1 710	1 080	0 849	0 604	0 545	0 501	0 637	1 940	2 940
23	3 510	2 420	3 510	1 680	1 070	0 851	0 603	0 548	0 489	0 648	2 010	2 990
24	3 550	2 390	3 370	1 640	1 060	0 825	0 594	0 560	0 484	0 638	2 100	3 010
25	3 590	2 350	3 270	1 610	1 010	0 835	0 594	0 555	0 496	0 653	2 200	2 970
26	3 500	2 330	3 180	1 580	0 995	0 838	0 595	0 554	0 508	0 673	2 220	2 930
27	3 480	2 270	3 140	1 530	1 000	0 823	0 597	0 546	0 511	0 688	2 250	2 870
28	3 380	2 270	3 050	1 500	0 995	0 811	0 593	0 540	0 498	0 697	2 320	2 820
29	3 320		2 930	1 470	0 942	0 828	0 570	0 543	0 501	0 704	2 310	2 730
30	3 230		2 910	1 440	0 941	0 816	0 551	0 540	0 498	0 707	2 260	2 670
31	3 160		2 820		0 921		0 552	0 537		0 707		2 620
Average	3 196	2 603	3 127	1 996	1 177	0 843	0 650	0 555	0 494	0 581	1 486	2 603
Lowest	2 800	2 270	2 250	1 440	0 921	0 790	0 551	0 537	0 469	0 493	0 711	1 990
Highest	3 590	3 090	3 680	2 650	1 420	0 958	0 751	0 587	0 530	0 707	2 320	3 010
Peak flow	3 700	3 170	3 880	2 870	1 520	1 010	0 819	0 631	0 586	0 752	2 360	3 140
Day of peak	24	1	20	1	3	3	1	18	5	31	28	19
Monthly total (million cu m)	8.56	6.30	8.38	5.17	3.15	2.19	1.74	1.49	1.28	1.56	3.80	6.97
Runoff (mm)	80	59	78	48	30	20	16	14	12	15	36	65
Rainfall (mm)	68	47	95	28	23	90	21	41	92	94	100	79

Statistics of monthly data for previous record (Oct 1963 to Dec 1981)

Mean flows	Avg	1 936	2 322	2 225	1 774	1 294	1 139	0 859	0 683	0 592	0 666	0 987	1 523
Low (year)	0 374	0 380	0 383	0 371	0 334	0 290	0 243	0 207	0 202	0 259	0 344	0 375	
High (year)	1 976	1 976	1 976	1 976	1 976	1 976	1 976	1 976	1 976	1 976	1 976	1 976	1 975
Low (year)	3 114	3 616	3 385	3 415	2 206	2 290	1 372	1 032	0 908	1 299	2 714	3 016	
High (year)	1968	1977	1977	1979	1968	1979	1977	1968	1968	1968	1967	1965	
Runoff, Avg	49	53	56	43	32	28	22	17	14	17	24	38	
Low	9	9	10	9	8	7	6	5	5	7	8	9	
High	78	82	85	83	55	58	34	26	22	33	66	76	
Rainfall, Avg	74	63	69	50	70	60	61	71	71	59	73	89	
Low	18	8	19	5	24	9	15	23	17	8	34	25	
High	126	159	143	90	161	155	120	149	149	171	163	159	

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	1.604	1.328	121
Lowest yearly mean		0.400	1976
Highest yearly mean		1.771	1966
Lowest monthly mean	0.494	0.202	Sep 1978
Highest monthly mean	3.196	3.618	Feb 1977
Lowest daily mean	0.469	0.190	23 Aug 1976
Highest daily mean	3.880	4.870	22 Dec 1965
Peak	3.880	5.000	22 Dec 1965
10 %ile	3.152	2.687	122
50 %ile	1.212	1.075	113
95 %ile	0.498	0.373	133
Annual total (million cu m)	50.58	41.91	121
Annual runoff (mm)	474	393	121
Annual rainfall (mm)	778	810	96
[1941-70 rainfall average (mm)]		823]	

Factors affecting flow regime

● Flow influenced by groundwater abstraction and/or recharge.

Station description

Crump weir 9.1 m broad

040005 Beult at Stile Bridge**1982**Measuring authority: SWA
First year: 1958Grid reference: TQ 758478
Level stn. (m OD) 11.49Catchment area (sq km): 277.1
Max alt. (m OD): 160

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	8.214	1.651	1.240	0.973	0.295	0.183	0.228	0.044	0.120	0.187	0.665	2.327
2	8.818	1.457	1.199	0.956	0.293	0.163	0.186	0.059	0.112	0.248	0.574	1.804
3	7.287	1.232	5.127	0.808	0.298	0.155	0.162	0.110	0.101	0.611	0.513	1.415
4	6.074	1.008	3.064	0.721	0.297	0.159	0.152	0.098	0.095	1.924	0.480	1.226
5	13.650	0.935	1.562	0.680	0.297	0.145	0.146	0.101	0.105	2.738	0.392	1.891
6	13.530	1.000	1.245	0.669	0.287	0.145	0.139	0.189	0.149	0.874	0.385	5.588
7	4.296	4.245	1.073	0.650	0.326	0.151	0.118	0.170	0.171	0.432	0.413	6.298
8	2.576	6.635	0.944	0.723	0.318	0.124	0.110	0.123	0.133	0.405	0.600	12.930
9	1.937	3.040	1.229	0.592	0.308	0.108	0.105	0.092	0.108	0.524	0.864	27.830
10	1.533	2.041	9.834	0.527	0.292	0.099	0.106	0.084	0.102	0.409	0.838	37.780
11	1.490	1.813	4.508	0.489	0.273	0.095	0.103	0.080	0.100	0.439	0.660	11.680
12	1.132	2.445	6.440	0.457	0.253	0.268	0.101	0.071	0.090	0.843	5.422	11.650
13	0.926	14.090	3.668	0.432	0.227	0.335	0.102	0.074	0.068	5.350	6.833	12.070
14	0.893	8.440	2.099	0.395	0.234	0.214	0.115	0.110	0.085	15.870	9.384	6.761
15	0.845	3.894	1.996	0.160	0.707	0.171	0.151	0.227	0.083	6.107	12.500	11.440
16	1.045	2.388	6.408	0.346	0.225	0.159	0.142	0.253	0.082	1.352	12.030	7.520
17	1.461	1.854	5.288	0.362	0.229	0.144	0.111	0.157	0.082	6.255	8.840	4.390
18	2.174	1.880	2.576	0.357	0.230	0.203	0.103	0.136	0.082	13.230	4.864	2.739
19	2.370	1.648	1.915	0.340	0.205	0.251	0.185	0.180	0.084	8.166	2.788	8.965
20	2.553	1.354	1.727	0.322	0.193	0.267	0.064	0.147	0.086	14.590	1.746	17.060
21	2.388	1.171	1.403	0.324	0.190	0.205	0.047	0.105	0.106	14.070	1.549	8.444
22	3.918	1.031	1.381	0.319	0.207	0.272	0.056	0.095	0.131	16.660	6.251	3.232
23	8.478	0.896	1.187	0.276	0.229	0.311	0.092	0.095	0.138	14.060	5.603	2.094
24	5.300	0.833	0.985	0.213	0.252	0.283	0.100	0.096	0.179	4.243	11.210	1.978
25	4.100	0.807	0.886	0.243	0.231	0.258	0.095	0.103	0.267	3.688	37.440	1.952
26	5.775	0.733	0.858	0.210	0.213	0.270	0.091	0.104	0.284	3.429	32.780	1.716
27	5.472	0.711	0.832	0.197	0.322	0.270	0.083	0.104	0.231	1.756	24.810	1.533
28	2.838	0.714	0.792	0.257	0.315	0.242	0.070	0.100	0.166	1.090	10.380	1.250
29	3.215		0.751	0.152	0.232	0.214	0.066	0.092	0.151	1.049	4.806	1.046
30	3.081		0.695	0.288	0.211	0.284	0.245	0.097	0.189	0.889	3.054	0.967
31	2.080		0.823		0.194		0.117	0.117		0.765		0.928
Average	4.175	2.491	2.372	0.448	0.254	0.204	0.119	0.116	0.129	4.588	6.958	6.984
Lowest	0.845	0.711	0.823	0.152	0.190	0.095	0.047	0.044	0.082	0.167	0.385	0.926
Highest	13.650	14.090	9.834	0.973	0.326	0.335	0.245	0.253	0.284	16.660	37.440	37.780
Peak flow	20.830	17.790	11.990	1.149	0.388	0.464	0.410	0.306	0.288	21.040	47.470	42.760
Day of peak	5	13	10	1	28	12	30	15	25	22	25	10
Monthly total (million cu m)	11.18	6.03	6.35	1.16	0.68	0.53	0.32	0.31	0.34	12.29	18.03	18.71
Runoff (mm)	40	22	23	4	2	2	1	1	1	44	65	68
Rainfall (mm)	45	32	54	10	35	65	26	47	55	158	106	79

Statistics of monthly data for previous record (Oct 1958 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg	4.787	3.672	3.119	1.584	1.112	0.585	0.260	0.330	0.627	1.899	3.342	4.066
Rows:	Low	0.733	0.707	0.333	0.180	0.114	0.045	0.028	0.005	0.032	0.061	0.133	0.401
	(year)	1976	1959	1976	1976	1976	1976	1976	1976	1959	1969	1978	1971
	High	8.972	9.241	8.175	4.016	3.417	3.727	1.678	1.607	3.504	9.812	14.390	8.782
	(year)	1975	1966	1975	1968	1978	1964	1980	1968	1974	1960	1960	1959
Runoff:	Avg	46	32	30	15	11	5	3	3	6	18	31	39
	Low	7	6	3	2	1	0	0	0	0	1	1	4
	High	87	81	79	38	33	35	16	18	33	95	135	85
Rainfall:	Avg	64	45	53	46	49	49	51	52	68	68	81	74
	Low	13	1	0	10	13	5	12	16	3	5	14	24
	High	120	103	116	77	96	119	107	119	141	185	163	167

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	2.407	2.108	114
Lowest yearly mean		1.120	
Highest yearly mean		3.938	
Lowest monthly mean	0.116 Aug	0.005 Aug 1976	
Highest monthly mean	8.984 Dec	14.390 Nov 1960	
Lowest daily mean	0.044 1 Aug	0.002 20 Aug 1976	
Highest daily mean	37.780 10 Dec	61.460 3 Nov 1960	
Peak	47.470 25 Nov	80.990 4 Nov 1960	
10 %ile	6.746	5.802	116
50 %ile	0.492	0.525	94
95 %ile	0.086	0.068	127
Annual total (million cu m)	75.91	68.52	114
Annual runoff (mm)	274	240	114
Annual rainfall (mm)	712	700	102
[1941-70 rainfall average (mm)]		681]	

Factors affecting flow regime

● Augmentation from effluent returns.

Station description

Broad crested weir with low flow notch, and alternative velocity-area station for high flows 45 m upstream

041016 Cuckmere at Cowbeech**1982**Measuring authority SWA
First year: 1967Grid reference TQ 611150
Level stn (m OD) 29.78Catchment area (sq km) 18.7
Max alt. (m OD) 183**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.609	0.201	0.153	0.150	0.053	0.020	0.015	0.013	0.012	0.042	0.144	0.310
2	0.750	0.202	0.261	0.124	0.052	0.018	0.014	0.008	0.012	0.187	0.138	0.260
3	0.535	0.152	0.702	0.115	0.056	0.015	0.013	0.010	0.011	0.139	0.140	0.231
4	0.678	0.146	0.284	0.105	0.047	0.015	0.012	0.012	0.014	0.839	0.134	0.217
5	2.462	0.151	0.189	0.096	0.033	0.015	0.010	0.010	0.013	0.217	0.134	0.418
6	0.637	0.157	0.176	0.103	0.040	0.060	0.008	0.011	0.012	0.086	0.134	0.355
7	0.439	0.959	0.156	0.210	0.038	0.058	0.013	0.009	0.009	0.078	0.155	1.173
8	0.390	0.517	0.140	0.196	0.041	0.019	0.012	0.008	0.010	0.077	0.191	2.171
9	0.340	0.300	0.420	0.102	0.040	0.017	0.012	0.008	0.010	0.065	0.182	3.093
10	0.312	0.251	1.077	0.092	0.036	0.017	0.013	0.007	0.010	0.058	0.147	0.822
11	0.297	0.233	0.336	0.083	0.024	0.016	0.010	0.008	0.010	0.052	0.138	0.453
12	0.263	0.273	0.569	0.080	0.029	0.016	0.012	0.008	0.010	0.187	0.795	0.713
13	0.239	0.906	0.272	0.084	0.023	0.015	0.014	0.021	0.008	2.546	0.314	0.441
14	0.229	0.373	0.216	0.063	0.028	0.015	0.017	0.022	0.010	0.594	1.130	1.119
15	0.242	0.312	0.242	0.082	0.033	0.014	0.026	0.017	0.010	0.204	0.498	0.741
16	0.320	0.270	0.278	0.072	0.033	0.014	0.014	0.019	0.011	0.543	0.884	0.482
17	0.301	0.252	0.213	0.074	0.033	0.015	0.013	0.012	0.009	1.370	0.427	0.399
18	0.303	0.268	0.188	0.072	0.033	0.025	0.012	0.030	0.009	1.564	0.317	0.309
19	0.266	0.222	0.175	0.069	0.033	0.026	0.011	0.012	0.013	0.414	0.253	2.411
20	0.258	0.204	0.178	0.070	0.031	0.027	0.011	0.009	0.017	0.264	0.232	0.785
21	0.291	0.193	0.139	0.068	0.033	0.020	0.012	0.010	0.031	0.861	0.341	0.493
22	0.362	0.181	0.134	0.067	0.045	0.157	0.012	0.012	0.017	2.633	0.728	0.384
23	0.291	0.171	0.100	0.061	0.041	0.081	0.014	0.011	0.097	0.549	0.904	0.361
24	0.245	0.162	0.107	0.057	0.037	0.057	0.012	0.015	0.111	0.372	3.781	0.435
25	0.244	0.152	0.109	0.057	0.034	0.048	0.011	0.011	0.108	0.387	2.098	0.372
26	0.358	0.148	0.105	0.052	0.026	0.034	0.014	0.019	0.060	0.280	3.434	0.346
27	0.247	0.176	0.090	0.052	0.065	0.057	0.012	0.014	0.045	0.276	1.679	0.317
28	0.220	0.170	0.098	0.056	0.040	0.030	0.011	0.010	0.043	0.206	0.586	0.277
29	0.288		0.115	0.060	0.025	0.024	0.012	0.012	0.044	0.189	0.471	0.264
30	0.245		0.106	0.056	0.020	0.018	0.018	0.015	0.054	0.173	0.389	0.247
31	0.215		0.105		0.024		0.014	0.011		0.157		0.227
Average	0.414	0.275	0.240	0.087	0.036	0.032	0.013	0.013	0.028	0.500	0.697	0.665
Lowest	0.215	0.146	0.090	0.052	0.020	0.014	0.008	0.007	0.008	0.042	0.134	0.217
Highest	2.462	0.959	1.077	0.210	0.065	0.157	0.026	0.030	0.111	2.633	3.781	3.093
Peak flow	6.867	2.067	2.671	0.247	0.092	0.445	0.040	0.069	0.333	6.721	17.220	8.303
Day of peak	5	7	10	7	27	27	15	18	24	13	24	9
Monthly total (million cu m)	1.11	0.67	0.64	0.23	0.10	0.08	0.03	0.03	0.07	1.34	1.81	1.78
Runoff (mm)	59	36	34	12	5	4	2	2	4	72	97	95
Rainfall (mm)	47	42	67	18	34	86	16	63	91	195	137	105

Statistics of monthly data for previous record (Apr 1939 to Dec 1981—incomplete or missing months total 0.2 years)

Mean	Avg	0.222	0.219	0.176	0.117	0.087	0.054	0.039	0.037	0.054	0.088	0.166	0.172
flows	Low	0.084	0.068	0.045	0.027	0.018	0.009	0.013	0.009	0.011	0.014	0.013	0.030
	(year)	1963	1981	1944	1976	1976	1976	1976	1976	1964	1978	1973	1947
	High	0.785	0.765	0.574	0.299	0.196	0.393	0.322	0.154	0.394	0.482	0.854	0.560
	(year)	1975	1974	1981	1970	1978	1971	1980	1980	1974	1974	1974	1976
Runoff	Avg	32	29	25	16	12	8	6	5	7	13	23	25
	Low	12	9	6	4	3	1	2	1	2	2	2	4
	High	112	98	82	41	28	54	46	22	55	69	118	80
Rainfall	Avg	89	69	69	51	62	66	56	65	91	81	101	85
(1967-1981)	Low	25	26	22	10	21	12	15	7	9	5	19	21
	High	166	155	137	86	110	155	119	111	222	181	199	184

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	0.250	0.119	211
Lowest yearly mean		0.050	1973
Highest yearly mean		0.278	1974
Lowest monthly mean	0.013	0.009	Jun 1976
Highest monthly mean	0.697	0.854	Nov 1974
Lowest daily mean	0.007	0.003	21 Jun 1976
Highest daily mean	3.781	8.487	4 Nov 1987
Peak	17.220	17.790	27 Dec 1979
10 %ile	0.554	0.225	246
50 %ile	0.103	0.077	133
95 %ile	0.010	0.014	76
Annual total (million cu m)	7.89	3.75	210
Annual runoff (mm)	427	200	210
Annual rainfall (mm)	901	885	102
[1941-70 rainfall average (mm)]		821	

Factors affecting flow regime

- Flow influenced by groundwater abstraction and/or recharge
- Abstraction for public water supplies

Station description

Compound Crump weir, crest breadths 2.13 m and 2.97 m

042010 Itchen at Highbridge + Allbrook**1982**Measuring authority: SWA
First year: 1958Grid reference: SU 467213
Level stn. (m OD): 17.15Catchment area (sq km): 360.0
Max alt. (m OD): 208**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7.745	7.207	7.326	7.763	6.173	4.779	4.500	3.605	3.296	3.358	5.217	7.967
2	7.079	7.119	7.146	7.612	6.139	4.825	4.475	3.628	3.319	4.438	5.224	7.959
3	6.964	7.148	7.434	7.533	6.314	4.657	4.496	3.430	3.256	4.516	5.230	8.057
4	7.218	7.100	7.090	7.508	6.135	4.604	4.442	3.456	3.200	5.704	5.067	8.117
5	7.503	7.166	6.936	7.355	6.311	4.463	4.320	3.605	3.178	4.499	5.175	8.131
6	7.356	7.204	7.142	7.755	6.635	4.320	4.201	3.601	3.074	3.987	5.074	8.484
7	7.201	7.529	7.430	7.858	6.262	4.415	4.150	3.559	3.116	3.750	5.531	8.899
8	7.275	7.472	7.136	7.442	5.991	4.479	4.091	3.473	3.101	3.703	6.132	9.208
9	7.198	7.252	7.483	7.285	5.891	4.412	4.123	3.403	3.121	3.622	5.878	10.890
10	7.180	7.137	8.343	7.281	5.838	4.363	4.184	3.317	3.135	3.621	5.695	10.680
11	7.297	7.112	7.827	7.374	5.720	4.420	4.136	3.264	3.084	3.891	5.660	9.915
12	7.158	7.219	7.809	7.394	5.617	4.363	4.191	3.245	3.049	3.973	6.230	10.200
13	7.076	7.752	7.615	7.136	5.527	4.275	4.073	3.393	3.023	4.773	6.049	9.984
14	7.082	7.612	7.475	6.997	5.495	4.355	3.985	3.643	3.087	5.673	5.842	9.880
15	7.115	7.351	8.239	6.776	5.472	4.261	4.299	3.887	2.993	4.689	5.753	10.000
16	7.725	7.132	8.236	6.737	5.448	4.312	4.174	3.711	3.060	4.709	5.856	9.885
17	7.947	7.081	7.876	6.697	5.408	4.513	3.966	3.492	3.072	5.158	5.823	9.799
18	7.703	7.068	7.741	6.633	5.396	4.739	3.847	3.660	3.066	4.787	5.823	9.671
19	7.663	6.984	7.787	6.500	5.357	4.308	3.897	3.642	3.125	4.298	5.718	10.630
20	7.575	6.918	7.718	6.289	5.363	4.177	3.812	3.528	3.119	4.416	5.872	10.630
21	7.465	6.893	7.742	6.526	5.296	4.270	3.739	3.381	3.249	5.474	6.515	10.160
22	7.477	6.890	7.858	6.308	5.544	5.826	3.745	3.371	3.239	6.896	7.072	9.848
23	7.407	6.832	7.728	6.122	5.425	5.435	3.753	3.366	3.282	5.983	7.676	9.817
24	7.366	6.806	7.736	6.028	5.383	4.957	3.754	3.405	3.324	5.644	8.023	9.973
25	7.377	6.976	7.690	6.012	5.227	4.708	3.679	3.409	3.409	5.625	8.095	9.788
26	7.482	6.924	7.670	6.155	5.195	4.859	3.463	3.511	3.540	5.577	7.876	9.591
27	7.442	6.869	7.776	6.099	5.406	4.669	3.641	3.421	3.731	5.371	8.030	9.483
28	7.318	6.859	7.765	6.016	5.170	4.768	3.605	3.292	3.579	5.360	7.800	9.500
29	7.267	7.736	6.136	5.078	4.618	3.625	3.291	3.861	5.325	7.984	9.632	9.575
30	7.208	7.792	6.202	4.975	4.328	3.700	3.357	3.530	5.192	8.013	9.575	9.575
31	7.129	7.690	4.914	4.914	3.691	3.273	3.273	3.273	5.109	5.109	9.587	9.587
Average	7.355	7.129	7.644	6.851	5.616	4.582	3.992	3.472	3.241	4.793	6.331	9.546
Lowest	6.964	6.806	6.936	6.012	4.914	4.177	3.463	3.245	2.993	3.358	5.067	7.959
Highest	7.947	7.752	8.343	7.858	6.635	5.826	4.500	3.887	3.861	6.896	8.095	10.890

Peak flow**Day of peak****Monthly total**

(million cu m)

19.70 17.25 20.47 17.76 15.04 11.88 10.69 9.30 8.40 12.84 16.41 25.57

Runoff (mm)**Rainfall (mm)**

55 48 57 49 47 33 30 26 23 36 46 71

Statistics of monthly data for previous record (Oct 1958 to Dec 1981)

Mean flows.	Avg	6.382	7.122	7.028	6.516	5.752	4.879	4.181	3.883	3.766	4.197	4.916	5.659
	Low	4.211	4.162	3.644	3.203	3.093	2.582	2.474	2.331	2.669	2.702	2.840	3.136
	(year)	1976	1964	1976	1976	1976	1976	1976	1976	1976	1976	1976	1976
	High	10.520	10.850	9.923	8.521	7.312	6.550	5.219	5.245	5.128	7.867	9.857	10.860
	(year)	1969	1969	1977	1969	1966	1979	1979	1979	1968	1960	1960	1960
Runoff	Avg	47	48	52	47	43	35	31	29	27	31	35	42
	Low	31	29	27	23	23	19	18	17	19	20	20	23
	High	78	73	74	61	54	47	39	39	37	59	71	81
Rainfall	Avg	108	69	72	48	73	53	62	59	90	52	91	77
(1971	Low	39	19	24	16	39	10	34	38	21	30	31	25
1979):	High	159	137	125	68	131	91	87	89	195	71	197	138

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre 1982
Mean flow (m ³ s ⁻¹)	5.876	5.347	110
Lowest yearly mean		3.708	
Highest yearly mean		6.594	
Lowest monthly mean	3.241	2.331	1973
Highest monthly mean	9.546	10.860	1960
Lowest daily mean	2.993	2.167	1976
Highest daily mean	10.890	12.800	1960
Peak			
10 %ile	7.994	7.774	103
50 %ile	5.767	4.898	118
95 %ile	3.240	3.038	107
Annual total (million cu m)	185.30	168.70	110
Annual runoff (mm)	515	469	110
Annual rainfall (mm)		854	
[1941-70 rainfall average (mm)]		876]	

Station description**Factors affecting flow regime**

- Flow influenced by groundwater abstraction and/or recharge
- Abstraction for public water supplies
- Augmentation from surface water and/or groundwater

043005 Avon at Amesbury**1982**Measuring authority: WWA
First year: 1965Grid reference: SU 151413
Level stn (m OD): 67.06Catchment area (sq km): 323.7
Max alt. (m OD): 294**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9 592	6 762	5 513	7 159	4 518	2 761	2 277	1 544	1 372	1 562	2 136	4 780
2	11 770	6 652	5 431	8 895	4 462	2 627	2 229	1 506	1 337	1 748	2 135	4 774
3	10 600	8 676	6 081	6 796	4 517	2 568	2 139	1 483	1 319	1 991	2 117	4 717
4	10 270	6 401	5 704	6 680	4 618	2 542	2 085	1 588	1 298	2 789	2 071	4 711
5	10 140	6 549	5 478	6 625	4 528	2 491	2 063	1 792	1 321	2 857	2 136	4 731
6	9 730	6 849	5 831	7 283	4 525	2 417	2 065	1 891	1 330	2 286	2 152	4 622
7	9 055	6 737	7 675	7 208	4 365	2 372	2 024	1 710	1 294	1 988	2 383	4 950
8	8 717	6 588	6 840	6 975	4 193	2 353	1 869	1 619	1 280	1 893	3 118	5 353
9	8 325	6 309	6 985	6 576	4 074	2 325	2 024	1 558	1 288	1 872	3 042	5 952
10	8 516	6 173	9 032	6 320	3 947	2 339	1 909	1 515	1 243	1 795	2 723	11 210
11	8 122	6 505	7 417	6 088	3 799	2 326	1 904	1 499	1 283	1 877	2 579	8 434
12	7 759	6 685	7 717	5 859	3 838	2 353	2 048	1 477	1 248	1 925	3 868	8 827
13	7 425	7 053	7 147	5 733	3 554	2 351	2 127	1 533	1 238	2 113	4 864	8 924
14	7 244	6 691	6 815	5 584	3 492	2 329	2 030	1 612	1 253	2 444	3 659	7 349
15	7 221	6 328	8 957	5 464	3 447	2 304	2 063	1 613	1 266	2 208	3 695	7 685
16	8 035	6 110	14 680	5 315	3 397	2 285	2 117	1 557	1 237	2 212	3 538	7 370
17	9 899	6 060	10 400	5 318	3 341	2 271	1 972	1 535	1 222	2 859	3 441	7 197
18	10 590	6 067	9 308	5 253	3 326	2 273	1 895	1 555	1 212	2 669	3 330	6 982
19	9 787	5 874	9 350	5 090	3 256	2 288	1 842	1 509	1 255	2 270	3 270	8 477
20	9 183	5 748	9 323	5 064	3 256	2 270	1 774	1 472	1 259	2 114	3 454	11 280
21	8 483	5 670	9 360	5 016	3 259	2 295	1 742	1 421	1 295	2 546	4 063	9 655
22	8 328	5 557	8 988	4 973	3 287	2 495	1 705	1 419	1 298	3 161	6 103	8 135
23	7 942	5 432	8 719	4 848	3 372	2 640	1 696	1 420	1 339	2 781	4 950	7 761
24	7 631	5 389	8 342	4 792	3 243	2 728	1 670	1 434	1 457	2 498	5 293	8 540
25	7 429	5 443	8 222	4 759	3 134	2 733	1 620	1 415	1 669	2 415	6 692	8 065
26	7 782	5 407	8 036	4 899	3 078	2 651	1 570	1 489	1 794	2 293	5 624	7 888
27	7 471	5 354	7 638	4 641	3 058	2 490	1 545	1 453	1 815	2 213	5 154	7 707
28	7 195	5 333	7 785	4 666	3 010	2 504	1 509	1 407	1 752	2 188	4 890	7 383
29	7 117		7 486	4 627	2 936	2 339	1 497	1 380	1 737	2 184	4 833	7 291
30	7 004		7 220	4 559	2 904	2 277	1 491	1 377	1 857	2 169	4 786	7 178
31	6 865		7 069		2 836		1 520	1 352		2 154		7 113
Average	8 558	6 154	7 898	5 695	3 625	2 433	1 872	1 520	1 378	2 260	3 730	7 259
Lowest	6 865	5 333	5 431	4 559	2 836	2 270	1 491	1 352	1 212	1 562	2 071	4 622
Highest	11 770	7 053	14 680	7 283	4 618	2 761	2 277	1 891	1 815	3 161	6 692	11 280
Peak flow	12 640	7 238	17 330	7 457	4 672	2 984	2 523	2 218	1 927	3 829	7 130	13 080
Day of peak	2	13	16	6	4	24	9	6	26	6	22	10
Monthly total (million cu m)	22 92	14 89	21 15	14 76	9 71	6 31	5 01	4 07	3 57	6 05	9 67	19 44
Runoff (mm)	71	46	65	46	30	19	15	13	11	19	30	60
Rainfall (mm)	50	40	97	27	36	82	33	62	62	121	113	91

Statistics of monthly data for previous record (Feb 1965 to Dec 1981)

Mean	Avg	4 923	5 838	5 591	4 515	3 450	2 654	2 028	1 729	1 630	1 951	2 654	3 877
Flows	Low	1 199	1 187	1 158	1 039	0 834	0 626	0 475	0 372	0 644	1 149	1 090	1 385
	(year)	1976	1976	1976	1976	1976	1976	1976	1976	1976	1970	1973	1975
	High	7 785	9 686	8 352	7 587	5 146	4 260	3 021	2 382	2 528	3 521	6 440	6 419
	(year)	1977	1977	1972	1979	1979	1979	1971	1979	1974	1966	1974	1974
Runoff	Avg	41	44	46	36	29	21	17	14	13	16	21	32
	Low	10	9	10	8	7	5	4	3	5	10	9	11
	High	64	72	69	61	43	34	25	20	20	29	52	53
Rainfall	Avg	77	59	68	46	61	58	52	64	72	64	74	88
	Low	18	6	14	8	24	3	15	72	11	4	31	26
	High	134	134	150	100	121	143	113	152	179	161	185	160

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	4 362	3 391	129
Lowest yearly mean		1 431	1976
Highest yearly mean		4 476	1977
Lowest monthly mean	1 378 Sep	0 372 Aug 1976	
Highest monthly mean	8 558 Jan	9 686 Feb 1977	
Lowest daily mean	1 212 18 Sep	0 175 22 Aug 1976	
Highest daily mean	14 680 16 Mar	15 540 25 Feb 1977	
Peak	17 330 16 Mar	17 280 28 Dec 1979	
10 %ile	8 168	6 473	126
50 %ile	3 415	2 798	122
95 %ile	1 325	1 130	117
Annual total (million cu m)	137 60	107 00	129
Annual runoff (mm)	425	331	129
Annual rainfall (mm)	814	781	104
[1941-70 rainfall average (mm)]		764]	

Factors affecting flow regime

● Natural to within 10% at 95 percentile flow

Station description

Crump weir 9.14 m broad with a broad crested weir on both sides

047001 Tamar at Gunnislake**1982**Measuring authority: SWWA
First year: 1956Grid reference: SX 426725
Level stn. (m OD) 8.21Catchment area (sq km): 916.9
Max alt. (m OD): 586

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	53.450	19.480	52.460	12.110	4.773	2.340	4.153	2.485	2.788	40.520	19.620	22.630
2	46.210	18.180	68.920	11.690	4.643	2.294	3.909	2.409	2.828	45.230	20.690	20.440
3	49.360	16.490	82.990	11.870	5.071	2.412	3.658	2.327	2.690	39.540	16.750	18.550
4	56.900	15.360	51.160	11.040	6.385	4.287	3.339	2.363	2.621	39.680	18.270	17.950
5	59.690	57.000	37.460	10.380	5.096	2.614	3.153	2.609	2.549	40.110	43.710	20.140
6	43.790	32.480	112.800	11.320	5.289	2.338	3.057	3.085	2.468	42.530	71.660	18.660
7	36.750	31.180	131.900	29.320	4.713	2.228	3.027	2.800	2.439	35.540	129.300	53.920
8	77.660	26.290	71.580	13.560	4.498	2.105	2.903	2.371	2.429	33.390	89.180	51.440
9	53.260	23.030	97.420	11.010	4.275	2.038	3.831	2.244	2.379	26.710	52.710	99.930
10	34.490	21.580	115.800	10.210	4.125	2.955	3.853	2.275	2.291	28.510	48.180	136.800
11	28.140	34.140	58.790	9.627	3.945	3.679	3.617	2.260	2.158	48.590	57.630	102.600
12	23.680	49.080	69.370	9.074	3.797	4.754	14.040	2.110	2.082	36.960	157.500	82.750
13	20.600	41.160	44.260	8.633	3.713	3.147	7.946	2.247	2.048	41.190	78.640	53.670
14	18.590	38.810	38.300	8.291	3.599	2.519	7.516	3.368	2.001	38.600	75.400	88.960
15	23.550	28.750	116.600	8.031	3.557	2.355	6.789	7.593	1.968	30.390	52.660	97.440
16	36.790	24.600	91.650	7.751	3.528	2.315	5.084	3.751	1.905	101.600	53.350	67.630
17	25.560	22.190	52.700	7.383	3.404	2.382	4.213	3.277	1.846	67.470	49.570	85.810
18	20.920	20.090	40.030	7.074	3.334	4.666	3.847	3.611	1.829	48.230	53.530	54.830
19	21.400	17.980	40.560	6.818	3.358	8.850	3.635	3.769	1.946	38.750	43.600	164.000
20	20.880	18.300	32.590	6.585	3.428	4.051	3.354	3.189	2.091	53.490	37.160	99.200
21	23.220	18.080	44.260	6.402	3.385	3.172	3.189	2.876	3.198	74.600	116.000	66.000
22	25.930	28.440	30.170	6.239	3.708	8.249	3.068	2.748	3.044	44.190	66.250	50.630
23	34.570	16.790	26.160	5.969	3.582	19.170	2.958	2.757	2.507	34.280	59.350	47.500
24	53.670	20.080	23.530	5.709	3.235	9.873	2.881	2.764	24.850	28.780	81.290	56.420
25	36.960	37.080	21.220	5.570	3.127	6.149	2.739	3.183	19.540	25.340	69.110	40.740
26	48.420	24.820	19.250	5.414	2.957	8.363	2.617	2.814	10.240	22.830	52.160	38.090
27	31.720	30.880	17.670	5.224	2.780	6.431	2.536	4.358	28.170	19.490	40.470	31.110
28	28.260	34.300	16.150	5.093	2.660	5.776	2.473	3.581	22.060	17.290	34.960	26.420
29	27.340	14.750	4.980	4.980	2.570	5.736	2.370	2.844	19.880	15.750	28.660	23.440
30	23.330	13.580	4.875	4.875	2.470	4.740	2.352	3.204	13.740	14.620	24.860	21.100
31	20.620	12.530			2.401		2.408	3.351		14.130		19.310
Average	35.670	27.170	53.120	8.908	3.754	4.733	4.015	3.052	6.419	38.330	58.070	57.290
Lowest	18.590	15.360	12.530	4.875	2.401	2.038	2.352	2.110	1.829	14.130	16.750	17.950
Highest	77.660	57.000	131.900	29.320	5.385	19.170	14.040	7.593	28.170	101.600	157.500	164.000
Peak flow	109.300	110.100	214.500	50.790	5.528	22.830	22.140	10.310	48.020	182.800	245.900	204.600
Day of peak	8	5	10	7	6	23	12	15	24	17	12	19
Monthly total (million cu m)	95.53	65.72	142.30	23.09	10.06	12.27	10.76	8.17	16.64	102.70	150.50	153.50
Runoff (mm)	104	72	155	25	11	13	12	9	18	112	164	167
Rainfall (mm)	95	109	165	27	33	131	49	91	97	176	202	183

Statistics of monthly data for previous record (Jul 1956 to Dec 1981—Incomplete or missing months total 3.4 years)

Mean flows	Avg	46.290	39.570	26.890	15.930	10.350	6.754	5.573	8.511	13.830	21.190	34.510	45.140
	Low	8.476	9.161	11.250	8.420	3.488	1.995	1.181	0.757	1.118	1.540	4.213	18.350
	(year)	1964	1965	1981	1974	1976	1976	1976	1976	1959	1978	1978	1983
	High	89.410	84.270	65.520	31.500	26.680	20.630	21.900	42.100	59.840	65.080	78.760	91.690
	(year)	1974	1974	1981	1960	1981	1972	1965	1958	1974	1981	1959	1959
Runoff	Avg	135	105	79	45	30	19	18	25	39	62	98	132
	Low	25	24	33	18	10	6	3	2	3	5	12	54
	High	261	222	191	89	78	58	64	123	169	190	223	268
Rainfall	Avg	143	103	98	67	74	70	87	93	107	118	135	143
	Low	23	3	14	8	25	11	24	18	10	12	58	41
	High	301	206	219	151	149	167	160	179	251	258	274	266

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	25.090	22.810	110
Lowest yearly mean		12.520	1984
Highest yearly mean		34.890	1974
Lowest monthly mean	3.052	0.757	Aug 1976
Highest monthly mean	58.070	91.680	Dec 1959
Lowest daily mean	1.829	0.580	23 Aug 1976
Highest daily mean	164.000	482.300	27 Dec 1979
Peak	245.900	714.600	28 Dec 1979
10 %ile	60.500	56.120	108
50 %ile	15.650	12.180	128
95 %ile	2.290	1.771	129
Annual total (million cu m)	791.20	719.90	110
Annual runoff (mm)	883	785	110
Annual rainfall (mm)	1357	1236	110
[1941-70 rainfall average (mm)]		1230]	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Flow influenced by groundwater abstraction and/or recharge.
- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater.
- Augmentation from effluent returns.

Station description

Velocity-area station. Because of the presence of large boulders, low flows are measured at a ford about 1.6 km upstream

050001 Taw at UMBERLEIGH**1982**Measuring authority SWWA
First year: 1958Grid reference: SS 608237
Level stn. (m OD) 14.14Catchment area (sq km) 826.2
Max alt. (m OD) 604

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	55.540	16.580	32.590	8.793	2.961	1.481	3.408	2.585	2.481	11.570	12.900	18.040
2	44.350	14.980	47.170	8.223	2.900	1.404	3.217	2.355	2.499	16.530	12.920	15.860
3	39.740	13.270	71.030	7.983	3.454	1.824	2.920	2.179	2.266	17.900	11.200	13.900
4	43.330	12.030	45.610	7.400	3.646	1.883	2.644	2.037	2.252	24.500	13.800	12.580
5	61.630	29.340	34.130	7.032	3.957	1.468	2.492	2.248	2.242	28.310	35.990	12.900
6	47.220	20.720	68.100	8.618	4.265	1.327	2.325	2.978	2.354	24.700	38.590	12.130
7	37.700	20.410	63.780	17.120	3.157	1.263	2.215	2.347	2.468	19.050	124.300	44.020
8	70.390	18.880	49.530	10.250	2.891	1.204	2.000	2.012	2.319	16.200	96.670	38.800
9	64.400	17.320	62.320	7.853	2.742	1.193	2.507	1.907	2.242	14.040	53.580	104.300
10	38.680	16.780	75.100	7.298	2.652	1.170	2.247	1.940	2.105	14.970	43.560	132.400
11	28.550	38.260	51.800	6.897	2.494	1.511	13.580	1.806	1.979	39.210	41.030	105.300
12	22.210	32.680	58.890	6.468	2.349	2.070	77.330	1.693	1.939	29.550	117.200	97.190
13	18.400	30.180	39.020	6.125	2.265	1.870	25.960	2.917	1.802	31.830	100.900	60.400
14	16.590	23.040	33.220	5.856	2.221	1.375	25.070	2.937	1.712	26.160	85.790	81.060
15	34.080	19.950	101.000	5.622	2.218	1.229	16.550	5.925	1.718	22.720	59.250	78.900
16	111.600	17.310	92.820	5.272	2.254	1.233	12.270	3.144	1.655	39.350	51.730	70.870
17	77.900	15.720	61.230	4.995	2.139	1.165	9.724	2.562	1.614	37.310	50.120	85.400
18	61.970	14.420	43.950	4.840	2.076	2.345	8.104	3.979	1.646	30.180	58.710	61.470
19	48.630	12.680	41.430	4.612	2.040	3.246	6.760	3.467	1.595	25.920	54.270	170.000
20	38.170	11.330	32.000	4.427	2.030	1.932	5.789	2.584	1.740	36.880	45.640	97.780
21	34.560	15.330	38.170	4.270	2.072	1.546	5.126	2.168	2.211	56.480	87.420	66.540
22	32.700	19.450	27.910	4.165	2.815	2.336	4.590	2.137	2.249	39.990	60.730	47.950
23	26.830	12.880	23.870	3.903	2.598	6.278	4.230	2.229	2.293	30.220	55.170	50.290
24	26.710	11.770	21.070	3.692	2.238	4.353	4.015	2.342	12.840	24.060	63.740	54.570
25	24.830	16.350	18.340	3.546	2.031	3.678	3.669	2.694	10.620	20.490	55.550	42.160
26	39.890	13.660	16.050	3.408	1.845	9.491	3.249	2.486	7.515	17.240	45.080	35.430
27	29.180	13.970	14.190	3.286	1.758	6.750	2.986	2.883	14.970	14.320	35.870	29.480
28	27.260	19.720	12.550	3.187	1.663	5.362	2.764	2.257	12.480	12.280	30.590	24.210
29	24.700	11.280	3.126	1.609	5.605	2.646	2.073	12.590	10.990	24.300	20.670	17.980
30	21.060	10.050	3.074	1.508	4.099	2.507	2.637	10.050	9.886	20.420	17.980	16.360
31	18.170	9.077		1.477		2.585	2.852		9.248			
Average	40.880	18.540	42.170	6.041	2.482	2.723	8.563	2.585	4.278	24.260	52.830	55.450
Lowest	16.590	11.330	9.077	3.074	1.477	1.165	2.000	1.693	1.546	9.248	11.200	12.130
Highest	111.600	38.260	101.000	17.120	4.265	9.491	77.330	5.925	14.970	56.460	124.300	170.000
Peak flow	127.600	65.380	143.900	23.890	5.538	12.480	162.200	7.727	25.400	72.350	215.200	241.100
Day of peak	16	13	15	7	6	27	12	15	24	17	8	19
Monthly total (million cu m)	109.40	44.84	112.90	15.66	8.59	7.06	22.94	6.92	11.09	64.98	136.90	148.50
Runoff (mm)	132	54	137	19	8	9	28	8	13	79	166	180
Rainfall (mm)	106	78	143	24	37	116	67	87	81	129	192	179

Statistics of monthly data for previous record (Oct 1958 to Dec 1981)

Mean flows:	Avg	34.490	29.840	20.620	13.730	9.404	5.488	4.782	5.648	8.228	18.950	27.980	36.080
	Low	6.657	3.244	7.918	3.889	2.073	1.434	0.796	0.423	0.861	1.043	3.653	13.210
	(year)	1963	1959	1962	1974	1976	1976	1976	1976	1959	1978	1978	1963
	High	50.890	64.760	52.140	32.800	22.140	16.830	23.390	14.440	47.670	77.360	56.500	73.670
	(year)	1965	1970	1981	1966	1969	1972	1968	1985	1974	1960	1963	1965
Runoff:	Avg	112	88	67	43	30	17	16	18	26	61	88	117
	Low	22	10	26	12	7	5	3	1	3	3	11	43
	High	165	160	169	103	72	52	76	47	160	251	184	239
Rainfall:	Avg	127	91	89	70	72	66	74	87	93	112	127	137
	Low	28	6	18	8	28	10	23	33	14	14	56	41
	High	216	173	183	145	144	164	152	140	247	278	239	271

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	21.810	17.890	122
Lowest yearly mean		11.310	
Highest yearly mean		27.590	
Lowest monthly mean	2.462	0.423	1964
Highest monthly mean	55.450	77.360	1960
Lowest daily mean	1.165	0.200	28 Aug 1976
Highest daily mean	170.000	363.800	4 Dec 1960
Peak	241.100	644.900	4 Dec 1960
10 %ile	59.730	45.930	130
50 %ile	12.030	9.472	127
95 %ile	1.612	1.250	129
Annual total (million cu m)	687.80	564.60	122
Annual runoff (mm)	832	683	122
Annual rainfall (mm)	1239	1145	108
[1941-70 rainfall average (mm)]		1183]	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Abstraction for public water supplies.
- Augmentation from effluent returns.

Station description
Velocity-area station

052005 Tone at Bishops Hull**1982**Measuring authority: WWA
First year: 1961Grid reference: ST 206250
Level stn. (m OD) 16.20Catchment area (sq km): 202.0
Max alt. (m OD): 409**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	8.737	3.769	4.857	3.344	1.768	1.120	1.044	0.999	0.811	1.203	1.981	4.071
2	7.769	3.798	6.501	3.004	1.871	1.217	1.038	0.908	0.789	1.471	1.939	3.803
3	7.463	3.597	8.000	2.919	1.990	1.190	1.008	0.825	0.777	2.099	1.785	3.559
4	7.983	3.477	5.177	2.802	2.034	1.053	0.983	0.826	0.778	2.912	2.980	3.425
5	8.528	6.829	4.629	2.781	2.418	1.047	0.974	0.902	0.806	1.733	5.932	3.485
6	8.897	5.127	11.070	3.090	1.970	1.062	1.005	1.344	0.800	1.883	4.514	3.194
7	6.225	4.926	10.460	4.279	1.782	0.968	0.984	0.947	0.782	1.528	19.870	6.803
8	6.249	4.269	8.364	3.066	1.716	1.047	0.938	0.903	0.775	1.490	8.227	5.349
9	5.826	3.869	20.150	2.743	1.682	0.977	1.115	0.858	0.791	1.443	5.631	20.750
10	5.518	3.868	17.180	2.827	1.602	0.997	0.988	0.820	0.783	1.404	5.274	14.330
11	5.269	8.558	9.237	2.517	1.572	1.017	0.977	0.794	0.797	4.001	8.208	10.720
12	5.366	9.666	11.330	2.446	1.537	1.014	2.760	0.796	0.799	2.591	34.350	12.900
13	5.382	7.050	7.800	2.319	1.533	0.948	1.483	1.038	0.761	2.968	9.706	8.687
14	5.275	6.261	7.035	2.287	1.489	0.880	2.240	1.007	0.743	2.724	9.015	8.569
15	7.750	4.703	34.470	2.295	1.569	0.925	1.381	1.234	0.740	2.286	6.843	8.671
16	24.490	4.301	17.670	2.257	1.518	0.902	1.180	0.986	0.742	7.541	6.274	8.638
17	11.230	4.283	11.680	2.212	1.483	0.910	1.094	0.920	0.724	5.384	5.639	11.820
18	9.038	4.338	9.272	2.180	1.348	1.258	1.088	1.144	0.714	3.727	5.464	8.510
19	7.524	3.999	8.245	2.160	1.318	1.158	1.053	0.956	0.886	3.201	5.056	28.040
20	6.479	3.714	7.101	2.120	1.314	1.052	0.957	0.889	0.861	3.177	4.912	14.770
21	6.294	3.537	6.989	2.093	1.387	1.200	0.953	0.872	1.031	5.930	13.870	11.880
22	6.262	3.278	6.038	2.081	1.515	1.355	0.978	0.878	0.851	3.934	7.879	9.186
23	5.457	3.023	5.630	2.017	1.373	1.510	0.986	0.875	0.822	3.217	7.928	8.611
24	5.968	3.250	5.313	1.913	1.279	1.231	0.990	0.884	1.517	2.884	10.740	8.070
25	5.056	4.113	4.868	1.897	1.259	1.635	0.923	0.878	2.095	2.670	8.684	7.141
26	6.035	3.556	4.017	1.879	1.235	1.677	0.882	0.985	1.962	2.469	7.110	6.674
27	4.900	3.243	3.807	1.839	1.208	1.332	0.869	0.911	2.625	2.239	6.166	5.449
28	4.551	3.395	3.613	1.821	1.216	1.181	0.858	0.845	2.169	2.071	5.376	4.470
29	4.463	3.496	1.838	1.838	1.183	1.141	0.827	0.850	1.800	2.003	4.707	4.132
30	4.054	3.471	1.843	1.843	1.164	1.065	0.965	0.870	1.190	1.920	4.273	3.886
31	3.782		3.367		1.163		1.108	0.814		1.873		3.715
Average	6.962	4.528	8.737	2.422	1.530	1.138	1.115	0.926	1.061	2.773	7.611	6.503
Lowest	3.782	3.023	3.367	1.821	1.153	0.880	0.827	0.794	0.714	1.203	1.785	3.194
Highest	24.490	9.666	34.470	4.279	2.418	1.677	2.760	1.344	2.625	7.541	34.350	28.040
Peak flow	33.910	21.320	70.230	5.992	2.826	2.116	5.338	1.670	3.863	16.440	71.020	52.090
Day of peak	16	12	15	7	5	25	12	6	28	16	12	9
Monthly total (million cu m)	18.65	10.96	23.40	8.28	4.10	2.94	2.99	2.48	2.75	7.43	19.73	22.78
Runoff (mm)	92	54	116	31	20	15	15	12	14	37	98	113
Rainfall (mm)	78	74	140	21	33	93	71	66	95	123	169	139

Statistics of monthly data for previous record (Feb 1961 to Dec 1981)

Mean flows	Avg	5 639	6 334	4 506	2 840	2 039	1 427	1 250	0 977	1 274	2 069	3 171	4 880
	Low	1 246	1 746	1 552	1 177	0 735	0 455	0 326	0 266	0 501	0 580	0 652	1 821
	(year)	1976	1985	1982	1976	1978	1978	1964	1978	1978	1978	1975	1975
	High	10 580	14 000	9 259	6 616	3 085	2 770	5 628	1 686	4 892	9 872	8 761	11 280
	(year)	1971	1978	1981	1966	1967	1972	1968	1965	1974	1976	1963	1965
Runoff:	Avg	75	76	60	36	27	18	17	13	16	27	41	65
	Low	17	21	21	15	10	6	4	4	6	8	8	24
	High	140	168	123	85	41	36	75	22	63	131	87	150
Rainfall:	Avg	109	86	84	60	68	59	60	71	82	86	95	109
	Low	25	6	5	8	25	8	16	22	8	8	41	40
	High	202	170	170	160	126	147	144	122	202	249	185	206

Summary statistics**Factors affecting flow regime**

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	3.947	3.018	131
Lowest yearly mean		1.800	1984
Highest yearly mean		4.084	1974
Lowest monthly mean	0.926 Aug	0.266 Aug 1976	
Highest monthly mean	8.737 Mar	14.000 Feb 1978	
Lowest daily mean	0.714 18 Sep	0.179 22 Aug 1976	
Highest daily mean	34.470 15 Mar	84.200 23 Feb 1978	
Peak	71.020 12 Nov	112.700 11 Jul 1968	
10 %ile	8.534	6.508	131
50 %ile	2.284	1.779	128
95 %ile	0.807	0.625	129
Annual total (million cu m)	124.60	95.24	131
Annual runoff (mm)	816	471	131
Annual rainfall (mm)	1102	989	114
{1941-70 rainfall average (mm)		1027}	

Station description

Velocity-area station, improved by Crump weir of breadth 12.2 m in 1968.

053006 Frome(Bristol) at Frenchay**1982**Measuring authority: WWA
First year: 1961Grid reference: ST 637772
Level stn. (m OD) 19.96Catchment area (sq km): 148.9
Max alt. (m OD): 193**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5.900	1.488	2.884	1.048	0.427	0.244	0.411	0.188	0.215	0.832	0.983	1.516
2	5.739	1.373	8.180	0.898	0.468	0.259	0.381	0.179	0.198	0.935	0.922	1.415
3	4.781	1.249	9.301	0.833	0.476	0.252	0.359	0.214	0.180	0.927	0.819	1.265
4	4.983	1.140	3.738	0.831	0.608	0.257	0.346	0.271	0.175	1.080	0.744	1.188
5	7.031	3.784	2.518	1.014	0.433	0.242	0.339	0.860	0.276	0.946	1.330	1.105
6	4.235	3.340	10.880	1.716	0.404	0.238	0.321	0.491	1.034	0.801	1.582	1.013
7	2.887	2.395	18.040	3.882	0.378	0.212	0.308	0.265	0.332	0.586	4.032	2.985
8	1.988	1.959	6.254	1.785	0.367	0.350	0.292	0.237	0.238	1.056	6.705	2.767
9	2.103	1.837	6.475	1.561	0.351	0.289	0.290	0.222	0.217	0.711	3.885	9.173
10	2.184	1.476	12.180	1.173	0.347	0.430	0.263	0.217	0.201	0.558	2.268	17.000
11	1.912	5.278	8.018	1.094	0.335	0.382	0.255	0.201	0.183	0.713	2.891	7.488
12	1.861	4.494	8.593	0.915	0.326	0.330	1.345	0.200	0.177	1.004	15.410	11.900
13	1.465	8.111	4.172	0.868	0.308	0.267	0.454	0.417	0.175	2.459	8.412	5.196
14	1.488	3.181	3.150	0.832	0.297	0.251	0.599	0.478	0.181	1.408	11.450	3.617
15	1.540	2.311	20.980	0.815	0.291	0.234	0.358	0.546	0.185	0.823	5.813	3.527
16	10.920	1.855	12.860	0.782	0.293	0.223	0.301	0.301	0.188	3.166	4.200	2.989
17	18.400	1.747	5.508	0.737	0.281	0.285	0.273	0.249	0.172	3.437	2.844	2.422
18	11.270	1.788	3.543	0.692	0.270	3.807	0.254	0.620	0.164	1.570	2.243	1.835
19	8.712	1.592	2.823	0.667	0.267	1.035	0.238	0.264	0.291	1.026	2.029	14.230
20	5.129	1.405	2.147	0.848	0.290	0.474	0.231	0.229	0.388	2.948	3.537	13.450
21	4.145	1.287	2.820	0.833	0.405	0.538	0.223	0.207	0.524	4.725	11.940	6.055
22	3.944	1.171	2.208	0.827	0.445	2.234	0.224	0.207	0.305	2.527	10.080	3.495
23	2.942	1.058	1.848	0.607	0.342	1.306	0.236	0.201	0.298	1.514	6.184	4.948
24	2.317	1.037	1.890	0.578	0.284	1.103	0.228	0.321	0.791	1.117	8.850	5.196
25	2.800	1.199	1.406	0.541	0.287	1.898	0.216	0.244	1.022	0.951	8.027	3.378
26	5.759	1.132	1.306	0.516	0.288	1.972	0.208	0.513	1.011	0.920	4.951	2.757
27	3.640	1.092	1.211	0.501	0.284	1.193	0.190	0.379	1.210	0.785	3.388	2.519
28	2.707	1.887	1.123	0.484	0.251	0.850	0.190	0.241	1.054	0.869	2.473	2.040
29	2.242	1.137	0.469	0.469	0.244	0.738	0.192	0.237	0.805	0.811	1.941	1.786
30	1.886	1.017	0.449	0.232	0.232	0.471	0.194	0.299	0.509	0.564	1.880	1.624
31	1.828	0.947	0.235	0.235	0.235	0.205	0.205	0.207	0.617	0.617	1.504	1.504
Average	4.325	2.128	5.307	0.939	0.337	0.744	0.320	0.313	0.423	1.347	4.638	4.559
Lowest	1.485	1.037	0.947	0.449	0.232	0.212	0.190	0.179	0.164	0.558	0.744	1.013
Highest	18.400	8.111	20.980	3.882	0.606	3.807	1.345	0.860	1.210	4.725	15.410	17.000
Peak flow	17.850	8.892	33.840	5.198	1.012	8.552	4.247	2.940	3.452	6.532	22.710	23.100
Day of peak	17	13	15	7	4	18	12	5	6	16	12	10
Monthly total (million cu m)	11.58	5.15	14.21	2.43	0.90	1.93	0.88	0.84	1.10	3.61	12.02	12.21
Runoff (mm)	78	35	95	18	6	13	8	6	7	24	81	82
Rainfall (mm)	62	50	118	25	19	124	30	61	77	88	124	95

Statistics of monthly data for previous record (Oct 1981 to Dec 1981)

Mean	Avg	3.241	3.006	2.370	1.338	1.140	0.808	0.884	0.502	0.810	1.205	1.989	3.101
flows	Low	0.870	0.813	0.837	0.478	0.290	0.220	0.122	0.139	0.208	0.162	0.211	0.820
	(year)	1976	1985	1973	1976	1976	1976	1976	1976	1978	1978	1978	1973
	High	6.152	6.040	5.782	3.434	3.179	2.973	3.516	1.191	5.113	4.691	5.434	9.807
	(year)	1982	1977	1981	1986	1978	1971	1968	1971	1974	1967	1963	1965
Runoff	Avg	58	49	43	23	21	14	12	9	14	22	35	58
	Low	12	10	11	8	5	4	2	3	4	3	4	15
	High	111	98	104	60	57	52	63	21	89	84	95	178
Rainfall	Avg	72	58	64	49	65	62	58	69	77	64	74	88
	Low	18	3	21	9	25	6	12	26	21	5	35	25
	High	137	127	148	97	147	139	129	127	182	183	165	208

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	2.120	1.877	128
Lowest yearly mean		0.804	1973
Highest yearly mean		2.258	1974
Lowest monthly mean	0.313	0.122	Jul 1976
Highest monthly mean	5.307	9.807	Dec 1965
Lowest daily mean	0.164	0.075	10 Aug 1978
Highest daily mean	20.980	53.530	18 Dec 1985
Peak	33.840	78.500	1 Feb 1979
10 %ile	5.639	4.090	138
50 %ile	0.980	0.767	128
95 %ile	0.200	0.200	100
Annual total (million cu m)	68.88	52.92	128
Annual runoff (mm)	449	355	128
Annual rainfall (mm)	871	794	110
(1941-70 rainfall average (mm))		791]	

Factors affecting flow regime

- Flow influenced by groundwater abstraction and/or recharge.
- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions.

Station description

Trapezoidal critical depth flume. Range 0.028/56.6 cu m/s

054001 Severn at Bewdley**1982**Measuring authority: STWA
First year: 1921Grid reference: SO 782762
Level stn. (m OD) 17.00Catchment area (sq km): 4325.0
Max alt. (m OD): 827

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	226 800	74 810	40 140	39 250	19 500	11 480	47 370	12 420	24 240	70 510	35 020	70 570
2	185 900	67 050	65 740	37 660	19 900	10 740	38 440	14 570	18 340	56 760	38 250	84 150
3	245 300	62 490	94 690	35 580	20 100	12 350	34 720	14 860	16 810	56 380	47 110	59 680
4	289 200	58 510	146 500	34 270	22 400	15 600	31 430	14 930	15 450	47 380	85 840	55 440
5	315 500	53 340	110 800	35 830	21 700	15 060	26 470	18 010	15 780	48 990	83 020	53 050
6	319 700	77 930	93 640	47 410	20 000	13 360	23 700	20 430	15 330	69 910	78 180	58 790
7	275 800	75 560	188 700	66 250	20 500	11 750	21 170	15 420	14 210	85 560	95 480	86 210
8	184 900	70 710	189 600	65 720	19 800	11 800	20 200	12 990	12 940	71 010	92 220	153 900
9	129 800	68 480	124 700	61 670	18 600	13 000	18 900	11 990	12 860	67 310	87 640	224 000
10	105 100	89 350	160 200	46 090	16 900	14 120	18 080	11 300	12 520	60 090	77 620	252 300
11	98 850	73 250	231 900	41 020	16 600	17 410	18 740	10 780	12 390	51 190	71 820	242 600
12	88 040	70 590	193 200	38 980	16 000	18 480	17 490	11 110	11 950	46 520	105 800	175 000
13	75 020	79 380	195 600	33 660	15 000	23 420	15 880	11 750	11 330	46 290	185 700	147 400
14	73 750	88 850	160 200	31 950	14 800	17 630	28 740	12 580	11 530	74 820	163 900	130 400
15	81 500	74 460	250 900	29 990	15 100	16 380	47 820	18 300	11 670	55 220	198 500	137 900
16	75 930	65 240	289 000	28 520	15 600	13 580	41 560	17 980	10 920	50 070	169 500	189 800
17	148 100	57 590	288 400	27 920	15 100	12 980	28 820	21 540	10 780	60 970	182 500	187 400
18	218 700	54 200	228 300	26 170	13 200	16 830	22 570	25 550	10 160	83 300	139 600	140 100
19	235 000	52 240	180 700	25 530	13 600	19 200	19 380	57 380	10 400	84 250	168 100	131 000
20	218 200	46 810	140 100	24 830	13 700	20 560	17 280	36 160	15 510	88 250	147 700	239 900
21	186 700	42 100	123 400	24 020	14 500	20 360	16 130	28 850	27 080	151 300	142 100	281 600
22	173 900	40 460	114 600	23 330	18 300	30 200	15 430	22 920	36 530	116 400	222 900	305 200
23	180 100	39 540	98 930	22 800	16 400	51 070	14 840	20 210	31 960	90 580	243 700	284 100
24	127 400	37 950	78 560	21 810	17 000	86 400	14 250	24 900	38 070	78 400	213 100	225 100
25	104 000	38 080	68 780	20 930	19 000	64 170	14 440	22 810	81 830	67 000	210 300	215 800
26	105 000	37 670	61 550	20 980	14 900	89 520	13 350	32 160	101 400	57 860	205 800	176 600
27	145 400	36 060	54 190	20 390	14 300	107 200	12 270	26 330	73 710	51 800	165 600	154 000
28	122 900	35 670	49 680	19 600	14 200	75 880	12 180	25 450	73 170	48 120	128 600	125 400
29	98 280		47 400	19 580	13 500	83 590	11 600	21 900	107 600	43 470	99 860	93 960
30	88 830		44 780	19 400	13 000	66 890	10 660	18 280	106 300	38 210	81 290	80 130
31	86 370		41 920		11 800		10 760	20 050		35 650		73 190
Average	160 900	59 530	132 700	32 970	18 550	32 690	22 020	20 450	31 760	68 180	131 400	154 700
Lowest	73 750	35 670	40 140	19 400	11 800	10 740	10 660	10 780	10 160	35 650	35 020	53 050
Highest	319 700	89 650	289 000	66 250	22 400	107 200	47 820	57 380	107 600	151 300	243 700	305 200
Peak flow	322 300	98 800	301 800	68 900	23 500	124 300	54 800	71 000	130 300	166 600	247 500	309 800
Day of peak	8	14	17	9	4	28	1	19	30	21	23	22
Monthly total (million cu m)	430 80	144 00	355 30	85 46	44 32	84 74	58 97	54 77	82 32	177 30	340 50	414 30
Runoff (mm)	100	33	82	20	10	20	14	13	19	41	79	96
Rainfall (mm)	92	39	115	32	39	136	46	85	102	82	120	110

Statistics of monthly data for previous record (Apr 1921 to Dec 1981)

Mean flows	Avg	113 000	104 200	74 200	51 660	39 490	29 570	23 530	28 420	37 500	53 980	90 270	99 980
	Low	22 090	21 200	23 200	15 890	10 220	9 811	9 592	7 460	7 676	10 500	21 740	17 840
	(year)	1963	1934	1943	1938	1938	1978	1978	1976	1949	1947	1942	1933
	High	250 800	232 300	261 900	112 400	131 600	117 400	91 220	92 360	126 700	140 700	238 300	297 400
	(year)	1939	1946	1947	1947	1989	1931	1968	1927	1948	1987	1940	1985
Runoff	Avg	70	59	46	31	24	18	15	18	22	33	54	62
	Low	14	12	14	10	6	6	6	5	5	7	13	11
	High	155	130	162	67	81	70	58	57	76	87	143	184
Rainfall	Avg	91	69	61	60	70	60	74	78	78	84	96	91
	Low	23	8	3	5	18	5	10	13	5	13	13	10
	High	226	170	175	104	186	123	193	160	209	174	244	211

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	72 070	61 940	116
Lowest yearly mean		36 460	1984
Highest yearly mean		94 740	1980
Lowest monthly mean	16 550	7 460	Aug 1976
Highest monthly mean	160 900	297 400	Dec 1965
Lowest daily mean	10 160	5 990	4 Sep 1976
Highest daily mean	319 700	637 100	21 Mar 1947
Peak	322 300	6 Jan	
10 %ile	183 100	147 400	124
50 %ile	48 920	37 810	125
95 %ile	11 870	11 420	104
Annual total (million cu m)	2273 00	1955 00	116
Annual runoff (mm)	526	452	116
Annual rainfall (mm)	998	912	109
[1941-70 rainfall average (mm)]		952]	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Flow influenced by groundwater abstraction and/or recharge.
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater.
- Augmentation from effluent returns.

Station description

Velocity-area station. The aqueduct site (SO776783) recorder was superseded in January 1970 by the gauging section recorder. Variations used to derive the natural flow include storage changes in Lakes Vyrnwy and Clywedog and abstractions for public water supplies from the river

055026 Wye at Ddol Farm**1982**Measuring authority WELS
First year: 1969Grid reference SN 978676
Level stn (m OD) 192.76Catchment area (sq km): 174.0
Max alt (m OD) 752**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10 820	7 177	7 198	2 165	0 866	0 419	2 840	0 581	3 876	9 683	4 005	4 846
2	50 320	5 591	14 950	2 036	1 101	0 415	2 598	0 545	2 904	8 247	4 374	4 126
3	31 810	4 685	13 620	1 921	1 333	0 449	2 156	0 464	2 446	5 982	5 208	3 647
4	21 000	4 313	9 021	1 873	1 117	0 418	1 895	0 430	2 121	7 497	4 477	3 511
5	23 750	12 290	8 982	1 835	0 951	0 470	1 717	0 419	1 961	12 820	9 029	3 373
6	13 490	9 797	17 280	2 841	0 814	0 479	1 937	0 407	1 829	11 140	8 425	2 816
7	9 360	8 016	12 390	9 908	0 756	0 415	1 613	0 400	3 251	8 643	9 259	11 560
8	5 623	7 735	10 210	5 631	0 695	0 400	1 311	0 399	2 106	5 510	9 482	12 760
9	6 567	12 170	24 370	3 929	0 655	0 536	2 326	0 512	1 735	8 114	9 933	26 160
10	5 656	7 639	28 930	3 645	0 624	0 470	1 550	0 697	1 518	5 028	10 530	19 140
11	4 941	8 728	18 650	3 028	0 569	0 955	1 237	0 487	1 351	4 273	15 330	12 420
12	4 537	13 320	20 100	2 711	0 522	0 662	1 251	0 816	1 250	4 721	33 700	10 640
13	4 844	10 520	13 180	2 455	0 501	0 519	1 224	3 851	1 167	4 464	20 940	8 099
14	4 912	8 338	27 020	2 249	0 480	0 449	2 662	1 739	1 076	3 756	30 070	35 670
15	5 114	6 806	28 490	2 081	0 472	0 428	2 407	3 196	0 998	3 383	22 940	32 400
16	14 310	5 413	18 810	1 915	0 473	0 456	1 622	2 791	0 929	7 163	30 470	22 720
17	15 670	4 622	17 720	1 709	0 486	0 411	1 485	7 933	0 841	13 450	26 630	13 900
18	20 110	4 190	13 580	1 608	0 472	0 786	1 288	13 690	0 789	12 560	32 970	10 600
19	17 490	3 724	13 600	1 494	0 527	1 348	1 055	5 171	0 794	15 350	23 480	50 780
20	14 960	3 130	11 500	1 383	0 503	0 927	0 994	4 063	2 113	30 210	19 460	32 950
21	16 990	2 931	11 340	1 274	0 645	0 753	0 894	2 873	9 075	14 500	51 110	25 550
22	14 420	2 965	8 357	1 221	1 036	5 519	0 833	8 031	3 130	9 717	24 080	15 050
23	10 320	2 732	6 778	1 038	1 155	11 210	0 781	5 545	3 216	7 163	13 140	15 080
24	8 365	2 712	5 457	1 097	0 986	4 683	0 727	11 830	21 560	5 728	20 320	14 070
25	12 840	3 236	4 612	1 040	0 862	9 240	0 659	6 755	12 120	4 738	18 180	10 510
26	28 830	3 076	3 907	0 972	0 718	8 834	0 612	6 822	11 690	4 785	13 480	10 060
27	14 950	2 645	3 385	0 888	0 634	5 792	0 586	5 275	14 200	3 814	10 690	8 273
28	11 720	5 769	2 933	0 832	0 542	6 452	0 530	3 698	20 740	3 159	8 659	6 391
29	15 730		2 793	0 809	0 496	4 948	0 501	3 287	14 210	2 834	8 885	5 930
30	11 980		2 461	0 816	0 449	3 462	0 468	8 350	9 350	2 571	5 301	4 766
31	8 806		2 250		0 432		0 495	4 598		2 619		6 385
Average	14 200	6 224	12 320	2 216	0 705	2 403	1 362	3 666	5 145	7 726	16 780	14 320
Lowest	4 537	2 645	2 250	0 809	0 432	0 400	0 468	0 399	0 789	2 518	4 005	2 816
Highest	50 320	13 320	28 930	9 908	1 333	11 210	2 840	13 690	21 560	30 210	51 110	50 780
Peak flow	68 430	21 420	65 420	13 530	1 907	18 300	4 243	88 690	101 500	96 410	131 100	144 700
Day of peak	2	5	4	7	2	25	14	7	14	20	21	19
Monthly total (million cu m)	38 04	15 06	32 99	5 75	1 89	6 23	3 65	9 82	13 34	20 89	43 49	38 36
Runoff (mm)	219	87	190	33	11	38	21	56	77	119	250	220
Rainfall (mm)	158	94	182	45	44	146	41	151	142	146	251	224

Statistics of monthly data for previous record (Oct 1969 to Dec 1981)

Mean flows:	Avg	10 680	10 490	8 427	5 242	3 320	2 358	2 328	2 984	4 424	7 070	11 560	11 060
	Low	5 892	5 248	3 802	1 014	0 485	0 497	0 469	0 177	0 948	0 683	6 044	4 974
	(year)	1973	1975	1974	1974	1980	1975	1976	1976	1972	1972	1976	1971
	High	17 720	18 880	18 930	12 480	8 773	5 828	5 543	5 967	12 340	18 840	19 810	17 890
	(year)	1974	1970	1981	1972	1979	1972	1974	1973	1974	1981	1970	1974
Runoff:	Avg	164	147	130	78	51	35	36	46	66	109	172	170
	Low	91	73	59	15	7	7	7	3	14	11	90	77
	High	273	235	281	186	135	87	85	92	184	290	295	275
Rainfall:	Avg	183	152	144	95	85	84	83	102	132	135	201	181
	Low	98	49	60	13	25	21	35	13	44	39	128	95
	High	322	260	284	206	191	183	150	165	260	269	293	314

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	7 271	6 638	110
Lowest yearly mean		4 304	1978
Highest yearly mean		8 231	1974
Lowest monthly mean	0 705	0 177	Aug 1978
Highest monthly mean	16 780	19 810	Nov 1970
Lowest daily mean	0 399	0 099	28 Aug 1976
Highest daily mean	51 110	76 690	21 Feb 1970
Peak	144 700	252 200	5 Aug 1973
10 %ile	18 470	16 050	115
50 %ile	4 208	3 758	112
95 %ile	0 486	0 482	97
Annual total (million cu m)	229.30	209.50	109
Annual runoff (mm)	1318	1204	109
Annual rainfall (mm)	1624	1577	103
[1941-70 rainfall average (mm)]		1623]	

Factors affecting flow regime

- Abstraction for public water supplies

Station description

Velocity-area station. Flat V weir installed 1972. Replaces long term station at Rhyader 055905

056001 Usk at Chain Bridge**1982**Measuring authority: WELS
First year: 1957Grid reference: SO 345056
Level stn. (m OD) 22.63Catchment area (sq km): 911.7
Max alt. (m OD): 886**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	57.030	29.260	42.450	18.520	8.485	4.917	10.930	4.249	9.587	57.250	51.970	34.260
2	127.100	27.210	85.060	17.230	8.733	5.007	9.797	4.191	9.307	64.650	36.580	31.180
3	168.100	25.400	92.450	16.310	9.695	10.050	9.032	4.651	8.978	41.550	29.730	28.850
4	157.400	23.850	47.520	15.760	9.577	6.493	8.110	5.090	8.832	48.080	26.370	27.870
5	212.400	41.330	37.180	14.980	8.901	5.709	7.692	5.641	8.472	38.300	47.340	28.500
6	101.200	42.050	108.000	17.380	8.163	5.275	7.213	10.610	8.589	38.970	54.190	24.460
7	68.230	38.840	95.370	47.500	7.766	4.983	7.011	6.665	8.238	31.890	71.480	79.720
8	56.130	31.790	61.700	33.170	7.455	5.357	6.553	6.003	8.232	32.690	83.830	116.200
9	49.490	41.010	104.400	22.670	7.225	5.101	7.941	5.696	7.889	28.270	53.920	149.000
10	43.900	32.390	122.000	20.410	7.043	4.934	8.604	5.694	7.746	26.170	51.420	143.900
11	39.020	33.830	77.190	18.610	6.819	6.933	6.633	5.548	7.522	23.600	52.020	79.090
12	34.590	80.660	137.700	17.080	6.671	6.336	8.114	5.405	7.368	24.400	171.300	84.800
13	31.430	79.820	69.180	15.900	6.613	5.333	8.166	29.930	7.323	40.870	76.570	60.460
14	28.800	49.370	100.600	14.960	6.361	5.007	8.637	15.020	7.213	32.960	84.880	68.280
15	29.040	39.610	254.800	14.340	6.268	4.907	9.974	19.260	7.165	26.930	64.200	86.890
16	61.110	34.170	106.900	13.620	6.259	5.399	7.596	13.490	7.119	58.980	70.460	71.770
17	89.150	30.890	82.200	13.020	6.099	5.379	6.684	11.770	7.088	101.800	59.770	54.090
18	113.900	28.900	66.260	12.470	6.065	7.299	6.327	36.910	6.957	88.200	64.030	44.730
19	108.700	26.700	56.700	12.020	6.004	7.492	5.994	17.380	6.930	56.180	53.370	188.200
20	95.290	24.400	52.190	11.580	5.949	6.604	5.695	14.300	27.010	105.700	47.900	99.820
21	86.210	22.870	49.980	11.050	5.957	6.165	5.490	11.510	62.760	84.020	201.900	73.260
22	76.810	22.180	42.310	11.070	6.258	7.741	5.330	10.540	24.730	48.000	111.400	55.780
23	56.680	20.320	36.820	10.590	7.133	13.590	5.269	13.330	34.970	38.140	85.110	60.330
24	48.610	19.330	32.150	10.130	7.639	11.440	5.055	12.200	66.980	33.910	119.000	56.650
25	48.460	23.430	29.270	9.904	6.446	17.690	4.813	16.130	56.850	31.310	120.000	45.180
26	61.660	21.930	26.950	9.692	6.211	20.180	4.659	11.990	70.440	31.960	83.200	41.130
27	48.410	20.020	24.990	9.417	5.832	13.470	4.527	10.840	95.050	28.020	61.410	38.490
28	41.760	24.430	23.190	9.065	5.570	20.370	4.381	10.870	99.990	24.350	50.820	32.920
29	39.170	21.890	8.820	5.316	18.830	4.316	9.795	76.400	22.420	43.050	30.100	30.100
30	35.810	20.320	8.644	5.099	12.950	4.238	11.140	47.830	20.920	20.920	37.600	27.750
31	31.380	19.180		4.993		4.236	11.230		20.330			27.440
Average	72.420	33.430	67.960	15.530	6.858	8.698	6.742	11.510	27.110	42.870	72.160	63.900
Lowest	28.800	19.330	19.180	8.644	4.993	4.907	4.236	4.191	6.930	20.330	26.370	24.460
Highest	212.400	80.660	254.800	47.500	9.695	20.370	10.930	36.910	99.990	105.700	201.900	188.200
Peak flow	332.900	209.900	429.200	80.100	10.630	27.670	13.120	67.170	197.200	166.900	305.700	314.300
Day of peak	5	12	15	7	3	28	9	18	28	20	12	19
Monthly total (million cu m)	194.00	80.87	182.00	40.25	18.37	22.55	18.06	30.83	70.27	114.80	187.00	171.20
Runoff (mm)	213	89	200	44	20	25	20	34	77	128	205	188
Rainfall (mm)	184	93	192	40	36	142	43	139	168	167	228	189

Statistics of monthly data for previous record (Mar 1957 to Dec 1981)

Mean flows	Avg	49.030	43.210	34.770	22.730	17.350	11.020	8.275	9.990	16.510	27.760	38.300	49.380
Low	10.850	12.690	10.010	8.122	6.301	4.274	3.390	2.699	2.941	4.303	16.030	20.380	20.380
(year)	1984	1983	1982	1974	1980	1957	1976	1978	1959	1978	1975	1983	1983
High	88.650	95.710	100.700	45.110	32.750	26.740	27.490	16.790	45.680	86.350	99.840	112.700	112.700
(year)	1974	1958	1981	1960	1967	1972	1968	1958	1974	1967	1960	1959	1959
Runoff	Avg	144	116	102	65	51	31	24	29	47	82	109	145
Low	32	34	29	23	19	12	10	8	8	13	46	60	60
High	260	254	296	128	96	76	81	49	130	254	284	331	331
Rainfall	Avg	153	118	113	84	92	74	81	92	128	129	146	165
Low	28	11	15	10	31	17	27	25	8	19	74	48	48
High	331	223	303	175	221	137	137	168	259	325	323	351	351

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	35.840	27.300	131
Lowest yearly mean		14.880	1973
Highest yearly mean		44.050	1960
Lowest monthly mean	6.742	2.699	Aug 1976
Highest monthly mean	72.420	117.700	Dec 1959
Lowest daily mean	4.191	1.607	27 Aug 1976
Highest daily mean	254.800	585.400	27 Dec 1979
Peak	429.200	945.000	27 Dec 1979
10 %ile	84.970	62.370	136
50 %ile	23.590	16.460	143
95 %ile	5.073	4.407	115
Annual total (million cu m)	1130.00	861.50	131
Annual runoff (mm)	1240	945	131
Annual rainfall (mm)	1621	1375	118
[1941-70 rainfall average (mm)]		1415]	

Factors affecting flow regime

● Reservoir(s) in catchment.

Station description

Velocity-area station. Intake to canal upstream of gauge. Low flows measured accurately at alternative station 056010 Trostrey weir

062001 Teifi at Glan Teifi**1982**Measuring authority: WELS
First year: 1959Grid reference: SN 244416
Level stn. (m OD) 5.18Catchment area (sq km) 893.6
Max alt. (m OD): 595

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	40 970	26 920	31 230	13 310	5 250	3 037	7 431	2 589	7 389	128 300	30 500	31 210
2	51 150	24 610	45 400	12 620	5 223	2 948	6 979	2 887	7 807	124 500	28 280	27 390
3	91 000	21 210	58 870	12 070	5 436	5 280	6 468	2 898	6 368	76 210	26 330	24 370
4	86 300	19 700	47 100	11 860	5 699	4 567	6 191	2 888	5 558	70 040	25 930	24 350
5	92 770	44 890	40 280	11 260	5 638	3 579	5 817	2 888	5 264	62 790	41 360	23 880
6	71 500	42 170	98 340	11 500	5 455	3 423	5 747	2 887	5 129	61 830	58 520	21 090
7	58 400	38 170	103 400	16 040	5 167	3 368	5 718	2 820	4 874	49 600	55 800	38 550
8	44 880	34 440	78 960	17 290	5 027	3 110	5 442	2 771	5 029	41 490	56 770	52 130
9	38 740	41 240	90 850	13 560	4 746	3 004	5 324	2 771	4 742	37 490	48 830	61 640
10	37 140	35 320	106 800	11 780	4 562	4 638	5 244	2 771	4 453	30 450	46 210	82 470
11	33 670	39 970	84 200	10 810	4 352	8 094	4 968	2 742	4 309	30 480	61 300	66 650
12	29 580	104 900	90 540	10 040	4 222	7 521	4 662	2 873	4 118	29 130	114 800	67 280
13	26 810	114 100	63 830	9 515	4 128	5 922	4 761	3 587	3 978	32 920	83 030	53 860
14	23 980	89 380	72 170	9 230	3 987	4 494	6 121	5 768	3 888	35 850	79 450	66 870
15	27 100	51 840	114 900	8 943	3 956	4 008	10 180	5 269	3 769	35 190	77 670	73 650
16	54 280	43 340	86 380	8 534	3 917	3 835	9 400	4 879	3 698	73 930	79 440	85 130
17	80 480	37 130	68 150	8 198	3 716	3 642	6 629	5 058	3 819	110 400	68 900	55 070
18	66 550	30 740	55 780	7 835	3 661	4 701	5 512	7 641	3 555	102 000	63 350	50 460
19	86 500	26 350	48 700	7 582	3 681	13 370	4 988	9 030	3 533	82 290	54 390	105 400
20	61 230	23 020	46 180	7 389	3 661	12 490	4 543	7 043	4 779	130 800	49 630	84 810
21	67 680	21 880	46 240	7 167	3 956	8 445	4 308	6 719	23 360	101 200	113 800	72 540
22	55 970	24 180	37 720	7 060	4 430	9 329	4 133	5 037	15 690	74 500	98 820	58 100
23	47 480	19 870	29 870	6 812	4 197	13 950	4 018	5 889	11 980	53 870	81 400	61 690
24	42 210	21 590	25 490	6 510	4 039	9 312	3 959	7 430	48 930	44 870	101 300	71 500
25	38 750	29 540	22 600	6 323	3 901	12 570	3 853	11 370	55 930	38 780	103 300	60 030
26	52 580	27 310	20 150	6 133	3 744	13 960	3 835	8 337	64 310	37 280	82 220	50 350
27	50 270	22 570	18 180	5 992	3 604	11 020	2 939	7 915	78 300	31 180	65 120	42 950
28	44 300	25 240	18 890	5 701	3 468	9 521	2 823	7 510	98 400	26 420	53 900	36 550
29	38 220		15 350	5 463	3 398	9 294	2 890	5 931	88 160	23 740	43 910	30 980
30	34 020		14 180	5 349	3 302	8 404	2 616	5 770	59 770	21 680	36 800	27 390
31	29 080		13 130		3 160		2 589	8 884		21 310		27 430
Average	50 040	37 910	54 430	9 398	4 279	7 028	5 150	5 218	21 220	58 660	64 290	52 060
Lowest	23 960	19 700	13 130	5 349	3 160	2 948	2 589	2 569	3 533	21 310	25 930	21 090
Highest	92 770	114 100	114 900	17 290	5 699	13 960	10 160	11 370	98 400	130 800	114 800	105 400
Peak flow	107 900	152 500	131 100	18 720	5 774	18 080	11 240	12 980	116 200	184 800	131 100	113 200
Day of peak	3	12	9	8	4	19	18	25	28	1	12	9
Monthly total (million cu m)	134.00	91.70	145.80	24.35	11.46	18.22	13.79	13.98	55.01	157.10	166.70	139.40
Runoff (mm)	150	103	163	27	13	20	15	18	62	176	186	156
Rainfall (mm)	126	119	149	32	35	148	46	111	165	193	217	161

Statistics of monthly data for previous record (Jul 1959 to Dec 1981—incomplete or missing months total 0.3 years)

Mean flows	Avg	46 580	40 280	30 850	22 270	19 440	11 860	8 475	11 780	16 780	34 270	45 480	53 200
	Low	7 086	11 140	8 281	7 481	4 301	3 537	1 878	1 128	1 072	3 887	20 040	17 820
	(year)	1963	1965	1962	1974	1980	1976	1976	1976	1959	1972	1964	1963
	High	106 000	81 100	96 730	35 490	38 780	41 700	24 930	29 360	48 880	102 000	78 060	93 960
	(year)	1974	1974	1981	1966	1979	1972	1988	1966	1974	1981	1977	1965
Runoff	Avg	140	110	92	65	58	34	25	35	49	103	132	159
	Low	21	30	25	22	13	10	6	3	3	12	58	53
	High	318	220	290	103	110	121	75	88	141	308	226	282
Rainfall	Avg	145	98	100	87	82	77	81	95	117	147	153	156
	Low	28	12	25	19	29	17	25	16	10	40	76	28
	High	326	213	312	163	168	147	140	168	242	293	279	315

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	30.810	28.390	109
Lowest yearly mean		18 860	1964
Highest yearly mean		38 230	1974
Lowest monthly mean	4.279	May 1 072	Sep 1959
Highest monthly mean	64 290	Nov 106 000	Jan 1974
Lowest daily mean	2 569	31 Jul 0 731	29 Aug 1976
Highest daily mean	130 800	20 Oct 275 100	27 Dec 1979
Peak	184 800	1 Oct 303 300	27 Dec 1979
10 %ile	77 080	62 390	124
50 %ile	20 350	19 270	108
95 %ile	2 985	3 249	92
Annual total (million cu m)	971.60	895.80	108
Annual runoff (mm)	1087	1003	108
Annual rainfall (mm)	1502	1338	112
[1941-70 rainfall average (mm)]		1333]	

Station description
Velocity-area station

Factors affecting flow regime

- Reservoir(s) in catchment.
- Abstraction for public water supplies

065001 Glaslyn at Beddgelert**1982**

Measuring authority: WELS

First year: 1961

Grid reference: SH 592478

Level stn. (m OD) 32.95

Catchment area (sq km): 68.6

Max alt. (m OD): 1090

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.197	4.228	8.224	1.283	0.684	0.652	4.796	0.495	4.225	14.090	10.950	3.650
2	33.970	3.389	21.880	1.327	2.408	0.580	2.712	0.573	3.269	8.350	7.464	3.458
3	50.170	2.697	11.390	1.643	2.223	0.527	1.828	0.553	2.688	5.629	7.536	3.185
4	17.990	2.633	6.529	1.919	1.649	0.482	1.545	0.543	2.170	12.760	4.647	6.171
5	14.700	9.984	4.894	1.504	1.432	0.450	1.452	0.430	1.688	15.650	6.761	5.485
6	6.245	9.587	18.670	2.356	1.195	0.421	1.917	0.484	2.238	8.145	5.896	3.354
7	4.278	5.531	6.313	7.327	1.089	0.388	1.648	0.630	3.470	6.779	3.880	15.760
8	3.094	12.820	5.340	4.838	0.905	0.374	1.487	0.718	2.470	4.436	5.876	15.030
9	2.291	18.260	38.210	3.103	0.720	0.364	2.227	3.159	2.052	3.082	8.933	15.780
10	1.632	7.141	15.320	2.554	0.634	1.084	2.201	4.296	1.894	2.245	14.430	7.763
11	2.169	8.171	11.210	1.908	0.628	1.834	1.507	3.723	1.660	2.205	27.490	4.416
12	3.345	15.950	12.330	1.472	0.627	1.322	1.196	2.150	1.779	4.291	26.570	3.173
13	2.619	7.611	5.272	1.207	0.815	0.980	1.170	3.956	1.688	9.031	7.780	2.634
14	2.564	4.085	24.840	1.072	0.539	0.756	2.486	4.482	1.706	6.097	15.640	21.970
15	2.319	3.020	13.470	1.045	0.470	1.680	11.640	2.308	1.876	5.034	18.060	20.560
16	3.695	2.543	5.982	1.038	0.417	1.781	3.946	12.150	1.909	8.581	18.880	8.168
17	4.401	2.228	4.984	0.921	0.369	1.271	2.348	30.150	1.958	17.870	12.700	5.079
18	3.244	2.030	4.404	0.769	0.341	1.001	1.652	17.310	1.535	13.760	11.410	14.920
19	3.161	1.853	4.931	0.898	0.350	0.930	1.304	6.302	2.764	27.670	6.327	43.470
20	3.649	1.504	4.420	0.717	0.376	0.797	1.151	4.399	9.658	22.310	10.740	7.781
21	5.149	1.355	4.754	0.745	2.481	1.021	0.987	3.121	9.829	7.220	20.230	6.784
22	5.038	1.680	3.849	0.764	2.837	3.210	0.907	8.129	4.484	4.791	21.260	5.402
23	3.197	1.708	3.247	0.740	2.444	2.703	0.805	5.073	3.810	3.631	17.450	14.500
24	2.319	3.706	2.799	0.673	1.781	1.880	0.857	19.440	7.949	8.612	19.740	9.968
25	6.329	7.526	2.463	0.564	4.626	5.124	0.557	6.319	8.442	5.233	13.450	5.985
26	16.790	10.440	2.214	0.507	4.198	3.874	0.571	3.494	9.591	5.619	6.851	29.110
27	6.920	4.695	1.732	0.525	2.422	3.006	0.553	2.471	12.260	4.296	5.178	9.544
28	4.897	10.620	1.258	0.564	1.683	3.026	0.570	1.789	14.790	3.536	4.158	5.104
29	6.186	1.260	1.260	0.592	1.235	2.631	0.578	5.461	13.260	2.725	3.541	4.972
30	4.977	1.433	0.845	0.813	0.813	3.944	0.563	13.090	4.881	1.960	3.683	5.197
31	3.581	1.379		0.723	0.723		0.500	5.634		2.624		9.487
Average	7.552	5.983	8.225	1.500	1.390	1.602	1.854	5.510	4.726	8.006	11.580	10.250
Lowest	1.632	1.355	1.258	0.507	0.341	0.364	0.500	0.430	1.535	1.980	3.541	2.634
Highest	50.170	18.260	38.210	7.327	4.626	5.124	11.640	30.160	14.790	27.670	27.490	43.470
Peak flow	66.930	35.550	74.780	9.143	6.473	7.946	19.750	63.660	22.750	39.570	72.940	85.580
Day of peak	3	8	9	7	25	30	15	17	29	19	11	19
Monthly total (million cu m)	20.23	14.43	22.03	3.89	3.72	4.16	4.97	14.78	12.25	21.46	30.00	27.46
Runoff (mm)	295	210	321	57	54	61	72	215	179	313	437	400
Rainfall (mm)	305	241	322	76	103	170	89	367	245	406	454	461

Statistics of monthly data for previous record (Dec 1961 to Dec 1981—incomplete or missing months total 1.7 years)

Mean flows	Avg.	7.411	5.849	5.614	3.784	3.638	3.453	3.680	4.815	5.798	6.502	8.740	8.633
Low	1.535	1.369	1.798	0.814	0.325	1.368	0.779	0.248	0.355	1.984	4.072	1.793	
(year)	1963	1965	1969	1974	1980	1987	1978	1976	1972	1972	1968	1963	
High	12.750	13.040	15.610	8.228	6.790	7.429	7.132	7.972	11.830	13.370	14.460	16.400	
(year)	1975	1977	1981	1975	1979	1971	1978	1978	1974	1980	1980	1985	
Runoff													
Avg	289	208	219	143	142	130	140	188	219	254	330	337	
Low	60	48	70	31	13	52	30	10	13	77	154	70	
High	498	460	609	311	265	281	278	311	447	522	546	640	
Rainfall													
Avg	301	206	235	194	192	204	217	255	290	308	376	331	
Low	28	41	127	20	39	78	89	18	62	138	194	74	
High	512	475	638	482	334	358	380	437	508	726	564	700	

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	5.687	5.652	101
Lowest yearly mean		4.185	1988
Highest yearly mean		8.942	1980
Lowest monthly mean	1.390	0.248	Aug 1976
Highest monthly mean	11.580	18.400	Dec 1985
Lowest daily mean	0.341	0	7 Sep 1976
Highest daily mean	50.170	85.850	27 Oct 1980
Peak	85.580	136.200	21 Mar 1981
10 %ile	14.670	12.810	115
50 %ile	3.244	3.222	101
95 %ile	0.526	0.593	89
Annual total (million cu m)	179.30	178.40	101
Annual runoff (mm)	2614	2600	101
Annual rainfall (mm)	3239	3109	104
[1941-70 rainfall average (mm)]		2968	

Factors affecting flow regime

● Regulation for HEP.

Station description
Velocity-area station

067015 Dee at Manley Hall**1982**Measuring authority WELS
First year: 1970Grid reference: SJ 348415
Level stn. (m OD) 25.35Catchment area (sq km): 1019.3
Max alt (m OD): 884**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	36 960	28 640	26 470	13 470	8 830	9 379	18 670	10 930	12 580	48 520	24 470	40 870
2	111 300	25 580	38 500	12 720	9 669	9 478	15 570	10 580	15 180	52 700	30 750	37 250
3	217 900	22 900	63 800	12 200	13 350	9 670	11 500	10 600	12 370	40 080	46 060	33 930
4	195 700	21 070	54 520	12 840	9 263	9 323	9 829	10 650	9 411	35 810	42 740	32 470
5	184 800	30 620	45 440	12 210	8 591	9 416	9 413	10 750	8 973	48 540	48 800	35 810
6	116 200	32 180	59 290	12 210	8 474	9 056	8 807	10 540	9 122	70 880	52 150	32 760
7	80 090	33 610	61 810	12 780	8 608	8 850	8 388	9 119	9 824	51 600	47 960	52 580
8	58 770	32 390	53 660	13 980	9 558	9 144	7 990	8 084	10 280	44 140	44 850	93 900
9	49 910	50 610	67 700	13 910	9 484	9 875	8 055	9 574	9 757	35 620	42 330	120 000
10	44 640	45 190	99 980	15 330	9 126	9 724	8 610	9 658	9 561	29 010	40 310	111 500
11	40 230	47 420	92 820	14 150	8 444	10 700	8 519	9 485	9 759	23 110	44 670	94 490
12	35 820	65 870	118 600	13 000	8 259	9 899	8 436	10 010	10 070	22 330	122 900	73 520
13	32 990	74 010	94 680	11 490	8 399	9 460	10 270	10 420	10 350	34 610	87 240	59 070
14	30 610	67 620	178 700	10 400	9 672	9 226	12 810	10 460	10 180	32 670	102 900	55 710
16	31 930	55 200	185 700	10 080	9 761	9 945	18 220	10 740	9 539	32 930	84 920	79 510
18	39 110	44 370	138 100	9 753	9 966	10 310	16 320	12 140	9 484	38 680	81 850	81 570
17	51 220	37 980	113 700	9 448	9 736	9 838	15 520	12 690	9 840	56 080	73 020	74 070
18	61 070	32 980	87 640	9 140	9 942	10 580	12 960	33 980	9 563	58 380	77 130	66 980
19	57 020	28 220	70 290	8 826	10 130	12 280	10 400	38 500	9 646	51 880	67 470	161 100
20	50 920	24 040	60 880	8 603	10 290	11 040	9 770	27 290	11 800	70 550	62 960	137 300
21	49 520	21 210	55 640	8 501	10 290	10 980	9 857	17 270	22 390	59 160	123 800	154 600
22	51 680	19 850	48 070	8 991	10 390	16 590	9 707	15 090	16 300	48 840	144 800	110 200
23	43 000	17 770	42 400	8 833	10 960	17 290	9 638	18 200	17 110	39 170	149 600	92 880
24	36 450	16 560	36 700	8 894	10 270	13 830	9 605	21 210	36 500	33 030	158 100	111 900
25	33 590	18 400	32 100	8 858	8 207	30 510	9 631	22 300	47 450	30 150	138 800	87 030
28	43 820	18 410	27 890	8 798	8 042	31 500	9 742	21 990	41 200	29 100	103 500	85 510
27	42 820	17 070	24 000	8 655	8 327	25 930	10 070	22 400	50 770	28 860	79 490	78 590
28	36 840	17 120	19 210	8 537	8 706	25 820	10 250	15 420	68 470	26 320	85 260	67 500
29	34 870		16 470	8 515	9 369	26 330	10 170	11 240	68 970	24 620	54 210	56 070
30	36 430		15 340	8 673	9 284	22 550	10 150	12 560	58 700	23 150	48 250	48 060
31	31 900		14 080		9 296		10 400	13 400		22 240		44 020
Average	63 480	33 820	64 330	10 790	9 441	13 950	10 970	15 110	21 170	40 020	76 310	77 770
Lowest	30 610	16 560	14 080	8 501	8 042	8 850	7 990	9 084	8 973	22 240	24 470	32 470
Highest	217 900	74 010	185 700	15 330	13 350	31 500	19 220	38 500	68 970	70 880	158 100	161 100
Peak flow	241 300	103 400	232 900	15 740	18 880	43 800	21 300	40 640	84 930	100 000	209 600	218 100
Day of peak	3	12	15	10	3	25	15	18	28	6	22	19
Monthly total (million cu m)	170 00	81 81	172 30	27 97	25 29	36 16	29 39	40 46	54 88	107 20	197 80	208 30
Runoff (mm)	167	80	169	27	25	35	29	40	54	105	194	204
Rainfall (mm)	135	84	188	34	57	136	48	128	131	140	245	210

Statistics of monthly data for previous record (Feb 1970 to Dec 1981)

	Avg	47 320	47 770	37 400	24 500	15 600	13 150	11 000	15 440	19 250	31 690	47 920	49 360
Mean flows	Low	18 900	26 020	14 870	8 691	8 308	7 704	8 509	7 086	9 422	8 730	20 130	23 240
	(year)	1973	1979	1978	1974	1974	1974	1971	1976	1972	1972	1975	1971
	High	82 990	83 990	83 610	61 030	27 620	31 240	17 430	25 630	60 150	63 350	78 380	95 000
	(year)	1974	1977	1979	1970	1979	1972	1972	1973	1974	1981	1970	1979
Runoff	Avg	124	114	98	62	41	33	29	41	49	63	122	130
	Low	50	62	39	22	22	20	22	19	24	23	51	61
	High	218	199	220	155	73	79	46	67	128	166	199	250
Rainfall	Avg	150	117	122	81	81	80	84	96	131	135	167	148
	Low	60	37	54	10	39	16	31	9	45	43	93	46
	High	287	236	233	182	151	150	144	157	306	221	249	314

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	36 520	29 940	122
Lowest yearly mean		21 980	1975
Highest yearly mean		38 040	1974
Lowest monthly mean	9 441	7 086	Aug 1976
Highest monthly mean	77 770	95 000	Dec 1979
Lowest daily mean	7 990	4 772	7 Sep 1976
Highest daily mean	217 900	237 700	19 Oct 1971
Peak	241 300	275 600	19 Oct 1971
10 %ile	82 690	65 110	127
50 %ile	22 650	19 000	119
95 %ile	8 660	7 833	111
Annual total (million cu m)	1152 00	944 80	122
Annual runoff (mm)	1130	927	122
Annual rainfall (mm)	1532	1392	110
[1941-70 rainfall average (mm)]		1403]	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater

Station description

Asymmetrical compound Crump weir, superseding Erbistock, 067902, 1 km downstream. An extended data series by sequential combination with 067902 is available as 067715

068001 Weaver at Ashbrook

1982

Measuring authority: NWWA
First year: 1937

Grid reference: SJ 670633
Level stn. (m OD) 16.31

Catchment area (sq km): 622.0
Max alt. (m OD): 222

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	24 050	4 371	3 404	3 359	2 589	1 950	2 097	1 350	1 735	2 590	2 387	5 140
2	24 230	3 936	3 875	3 334	2 597	2 578	2 163	1 429	1 590	2 456	2 926	4 878
3	24 210	4 307	5 235	3 247	2 815	3 821	2 182	1 455	1 531	2 174	7 979	5 004
4	21 280	5 102	5 128	3 158	2 553	2 771	1 891	1 851	1 571	2 286	8 690	4 494
5	37 500	5 887	4 162	3 228	2 378	2 229	1 813	1 598	1 812	4 747	6 643	4 219
6	30 040	6 776	11 350	6 293	2 284	2 960	1 783	1 574	1 701	7 013	7 462	4 293
7	15 350	5 881	21 300	11 590	2 377	3 069	1 752	1 445	1 530	4 152	4 863	15 080
8	12 690	5 177	13 210	11 300	2 291	3 191	1 681	1 410	1 410	3 940	4 412	34 230
9	12 440	5 138	11 500	6 740	2 263	4 291	1 743	1 468	1 384	3 449	4 333	26 050
10	11 890	4 834	14 720	5 832	2 262	2 379	1 878	1 357	1 369	2 840	3 518	24 000
11	11 270	4 624	11 680	4 900	2 193	2 960	1 600	1 295	1 317	2 748	3 126	13 910
12	10 750	4 384	10 020	4 069	2 148	2 141	1 534	1 818	1 272	2 368	8 375	10 080
13	10 030	4 378	7 870	3 652	2 102	1 866	1 492	2 983	1 276	2 525	7 201	8 244
14	11 200	3 936	9 688	3 407	2 265	1 723	5 222	2 276	1 280	2 499	9 798	7 204
15	13 570	3 672	27 670	3 273	2 578	1 693	4 756	3 084	1 286	2 245	12 050	8 685
16	14 970	3 547	16 500	3 141	2 253	1 732	2 701	3 313	1 282	2 274	16 350	6 918
17	19 930	3 437	13 170	2 825	2 225	1 608	2 084	3 061	1 242	2 738	13 910	5 615
18	20 770	3 495	12 420	2 868	2 171	2 139	1 932	2 917	1 225	2 681	11 650	5 030
19	15 920	3 431	9 834	2 826	2 201	2 087	1 728	2 282	1 256	4 013	8 689	12 600
20	12 360	3 301	10 550	2 795	2 289	2 376	1 628	1 964	2 108	11 810	5 705	14 840
21	11 150	3 212	12 400	2 635	2 417	2 748	1 571	1 706	5 335	11 630	12 710	9 511
22	12 460	3 189	10 390	2 636	2 654	3 894	1 522	1 667	2 682	9 897	16 080	9 410
23	12 700	3 097	7 501	2 580	2 688	2 779	1 508	1 650	2 053	4 291	11 490	10 880
24	9 121	3 053	6 230	2 500	2 421	2 252	1 466	2 119	3 873	3 388	11 800	26 290
25	7 897	3 210	5 644	2 439	2 337	3 671	1 420	1 932	5 823	3 084	12 430	15 660
26	13 600	3 423	4 937	2 447	2 291	8 706	1 403	1 783	3 348	2 917	8 630	10 880
27	12 480	3 296	4 409	2 392	2 204	4 579	1 370	1 646	3 418	2 757	6 800	8 940
28	8 257	3 238	4 044	2 412	2 171	3 101	1 378	1 578	4 056	2 608	8 732	8 758
29	9 089	3 999	3 999	2 463	2 080	3 020	1 340	1 578	6 096	2 476	8 513	5 998
30	7 682	3 710	3 710	2 474	2 006	2 464	1 309	1 730	3 379	2 401	6 373	5 377
31	5 499	3 441	3 441	2 003	2 003	1 319	1 758	1 758	2 357	2 357	5 158	5 158
Average	14 980	4 118	9 348	3 897	2 323	2 893	1 905	1 904	2 308	3 721	8 454	10 810
Lowest	5 499	3 053	3 404	2 392	2 003	1 606	1 309	1 295	1 225	2 174	2 387	4 219
Highest	37 500	6 776	27 670	11 590	2 815	8 706	5 222	3 313	6 096	11 810	16 350	34 230
Peak flow	40 860	7 046	30 750	13 060	3 094	15 010	9 291	4 853	7 623	16 060	19 990	37 110
Day of peak	5	6	15	7	2	26	14	13	21	20	22	8
Monthly total (million cu m)	40 12	9 96	25 04	10 10	6 22	7 50	5 10	5 10	5 98	9 97	21 91	28 96
Runoff (mm)	65	16	40	16	10	12	8	8	10	18	35	47
Rainfall (mm)	56	17	73	30	30	101	34	76	75	65	87	71

Statistics of monthly data for previous record (Oct 1937 to Dec 1981—incomplete or missing months total 1.8 years)

Mean flows	Avg	10 290	9 624	8 629	4 596	3 787	2 737	2 882	3 114	3 464	4 619	7 816	9 323
	Low	1 955	2 376	2 183	1 490	0 903	1 125	0 736	0 841	0 919	1 184	1 303	2 429
	(year)	1984	1965	1938	1938	1946	1962	1976	1964	1964	1947	1942	1947
	High	21 950	19 860	18 580	9 083	22 720	6 995	12 750	8 404	16 990	15 970	22 540	22 250
	(year)	1939	1980	1947	1966	1969	1954	1968	1971	1957	1954	1954	1985
Runoff:	Avg	44	38	29	19	16	11	12	13	14	20	33	40
	Low	8	9	9	6	4	5	3	3	4	5	5	10
	High	95	80	80	38	98	29	55	36	71	69	94	96
Rainfall:	Avg	68	52	50	48	61	58	70	73	67	68	77	71
	Low	18	8	18	2	18	13	16	6	5	15	13	10
	High	145	145	127	89	194	142	168	175	169	137	170	152

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	5 580	5 723	98
Lowest yearly mean		2 752	1964
Highest yearly mean		9 209	1954
Lowest monthly mean	1 904 Aug	0 641 Aug 1978	
Highest monthly mean	14 980 Jan	22 720 May 1969	
Lowest daily mean	1 225 18 Sep	0 394 17 Aug 1978	
Highest daily mean	37 500 5 Jan	84 950 9 Feb 1948	
Peak	40 860 5 Jan	212 400 8 Feb 1948	
10 %ile	12 380	12 510	99
50 %ile	3 263	3 283	100
95 %ile	1 394	1 126	124
Annual total (million cu m)	176 00	180 60	97
Annual runoff (mm)	283	290	97
Annual rainfall (mm)	715	763	94
(1941-70 rainfall average (mm))		754]	

Factors affecting flow regime

- Flow influenced by groundwater abstraction and/or recharge.
- Abstraction for public water supplies.
- Augmentation from effluent returns

Station description

Velocity-area station In 1978 V shaped bed control of steel piles with capping installed

071001 Ribble at Samlesbury**1982**Measuring authority: NWWA
First year: 1960Grid reference: SD 589304
Level stn. (m OD) 6.00Catchment area (sq km) 1145.0
Max. alt. (m OD) 680**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	37 640	24 920	24 030	8 139	9 330	5 586	13 720	5 029	12 480	18 270	30 150	22 280
2	244 400	20 260	52 650	7 898	23 030	5 817	10 980	6 089	9 788	52 060	21 030	19 830
3	390 600	16 270	87 700	7 218	33 890	7 770	9 395	4 958	8 534	22 070	32 860	17 230
4	224 500	14 030	76 030	7 448	12 340	6 082	8 291	13 920	7 976	24 420	47 020	21 490
5	182 400	38 770	31 180	7 434	8 634	13 860	8 344	9 651	7 415	61 610	31 680	49 920
6	66 940	52 630	51 420	7 899	9 749	57 070	8 682	4 907	8 065	69 490	35 780	24 840
7	35 520	44 990	45 330	13 860	9 248	24 610	7 667	3 853	20 220	31 890	19 020	131 100
8	24 630	87 050	29 200	18 310	6 890	9 717	6 445	3 517	12 320	25 950	17 250	147 000
9	18 700	113 100	88 640	11 600	5 723	6 497	6 277	4 963	8 619	17 900	59 710	107 400
10	16 920	39 550	120 100	10 070	5 399	5 714	7 798	4 672	6 912	14 500	35 250	73 930
11	14 480	34 300	50 630	8 475	4 922	18 970	5 589	3 811	6 358	13 880	38 910	40 270
12	16 180	27 390	71 450	7 729	4 706	9 348	4 847	4 622	5 888	13 170	146 900	28 380
13	14 940	21 400	41 910	8 855	4 534	7 639	4 681	10 780	5 391	33 740	83 580	21 710
14	12 050	19 180	227 000	8 674	4 530	5 444	4 651	6 459	4 965	21 780	67 210	43 410
15	11 910	15 950	194 100	8 641	4 694	5 041	4 714	15 820	4 785	14 170	63 950	155 500
16	14 250	13 100	64 350	8 628	5 333	8 971	4 838	16 790	4 588	12 340	134 500	66 910
17	19 400	11 690	52 070	8 641	4 685	6 127	4 658	78 680	4 576	33 290	82 700	39 710
18	21 920	10 900	40 490	6 416	4 807	10 500	4 518	157 400	4 428	18 120	111 700	28 190
19	20 750	10 150	38 230	6 441	6 244	16 120	4 381	57 250	4 983	19 240	74 300	224 400
20	21 080	9 309	44 020	6 588	4 611	10 090	4 347	72 260	18 450	144 600	54 360	129 400
21	24 120	8 604	36 420	6 610	4 992	60 710	4 342	37 310	42 200	50 200	173 600	112 200
22	57 980	8 405	30 890	8 662	10 580	70 640	4 562	106 800	16 520	27 370	111 100	42 910
23	48 450	7 730	21 570	6 754	10 340	50 060	4 706	52 180	20 810	21 110	98 870	32 060
24	25 260	7 714	17 300	6 627	10 900	20 520	5 122	108 200	61 900	15 450	87 620	56 430
25	49 490	8 533	14 780	6 645	8 712	92 330	5 440	51 630	46 080	22 080	92 230	49 350
26	87 170	12 390	12 750	6 794	18 030	86 300	5 698	37 370	21 800	15 020	58 810	202 900
27	35 400	13 460	11 470	6 913	8 837	42 110	5 705	28 870	48 230	14 040	108 200	87 680
28	32 600	13 090	10 490	6 888	7 178	67 550	5 775	20 800	62 800	11 150	62 260	44 530
29	55 650	9 540	6 858	6 858	7 349	37 860	5 982	13 210	44 350	9 361	39 760	37 480
30	45 810	8 602	6 933	6 933	6 225	20 040	6 186	28 230	20 260	8 785	28 190	31 090
31	31 520	8 286	6 532	6 532	6 532	5 808	5 808	19 290	8 817	8 817	47 430	47 430
Average	81 310	24 460	51 370	7 884	8 766	25 970	6 262	31 880	17 990	27 930	68 140	68 930
Lowest	11 910	7 714	8 286	6 416	4 530	5 041	4 342	3 517	4 428	8 785	17 250	17 230
Highest	390 600	113 100	227 000	18 310	33 890	92 330	13 720	157 400	61 900	144 600	173 600	224 400
Peak flow	611 300	241 000	522 400	25 780	89 620	213 900	15 740	361 800	138 500	204 700	292 500	510 500
Day of peak	2	8	14	7	2	25	1	17	24	20	21	19
Monthly total (million cu m)	184.20	59.16	137.60	20.44	23.48	87.31	16.77	85.33	46.63	74.61	176.60	184.60
Runoff (mm)	143	52	120	18	21	59	15	75	41	85	154	161
Rainfall (mm)	124	63	151	26	70	158	21	190	88	101	199	191

Statistics of monthly data for previous record (May 1960 to Dec 1981)

Mean flows	Avg	48 210	38 620	34 040	27 180	19 550	13 710	16 670	24 220	31 090	40 890	54 300	53 260
Low (year)	1963	1965	1975	1974	1980	1975	1976	1976	1972	1972	1982	1982	1971
High (year)	1955	1966	1981	1970	1967	1966	1960	1967	1968	1968	1967	1963	1965
Runoff: Avg	113	82	80	61	46	31	39	57	70	96	123	125	
Low	25	20	28	13	9	11	11	7	13	13	57	36	
High	178	171	245	124	109	76	94	161	149	277	201	281	
Rainfall: Avg	129	92	107	77	87	90	96	104	141	136	149	138	
(1984- Low	63	17	51	3	16	27	52	20	48	50	86	43	
1981) High	196	189	280	171	178	166	158	169	277	304	221	278	

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	33 520	33 460	100
Lowest yearly mean		22 040	1971
Highest yearly mean		45 020	1967
Lowest monthly mean	6 282	2 958	Aug 1976
Highest monthly mean	88 930	120 200	Dec 1965
Lowest daily mean	3 517	2 106	28 Aug 1976
Highest daily mean	390 600	675 000	27 Oct 1980
Peak	611 300	810 000	27 Oct 1980
10 %ile	80 370	81 560	99
50 %ile	16 990	16 500	103
95 %ile	4 670	4 615	101
Annual total (million cu m)	1057 00	1058 00	100
Annual runoff (mm)	923	922	100
Annual rainfall (mm)	1382	1346	103
{1941-70 rainfall average (mm)		1329}	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Augmentation from effluent returns.

Station description

Original a velocity-area station. A compound weir for more accurate measurement of low and medium discharges was completed in 1970 with Crump profile flat V centre section and horizontal flank weirs of Crump profile. Velocity-area station became the primary gauging site in 1981 due to vandalism at the weir site.

073010 Leven at Newby Bridge**1982**Measuring authority: NWWA
First year: 1939Grid reference: SD 367863
Level stn. (m OD) 37.28Catchment area (sq km): 247.0
Max alt. (m OD): 873

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11.980	17.600	12.640	4.475	1.332	3.003	9.738	1.274	15.900	27.210	20.020	20.280
2	22.480	16.200	15.350	3.935	2.056	2.640	8.431	1.591	13.410	35.810	23.060	16.880
3	82.740	14.270	24.240	3.863	5.056	2.487	6.973	2.111	11.410	32.750	21.340	14.210
4	110.200	12.390	26.770	4.113	6.302	2.196	5.922	2.314	10.170	28.240	19.050	12.670
5	99.810	13.530	25.110	3.995	5.910	2.454	5.404	2.486	9.079	25.860	18.580	13.440
6	78.930	16.800	29.780	3.796	5.404	2.947	4.820	2.059	7.341	25.550	22.270	12.790
7	59.940	18.550	32.180	4.723	4.645	2.859	4.016	1.693	7.044	23.770	21.480	13.610
8	46.160	22.230	27.330	4.741	3.819	2.675	3.986	1.975	6.775	20.840	19.410	21.850
9	35.840	35.050	31.350	4.376	3.263	2.488	3.539	2.231	5.922	17.750	20.190	26.390
10	28.370	47.470	50.050	4.131	2.928	2.241	3.440	2.124	5.545	15.090	25.650	29.040
11	20.210	47.550	47.580	3.782	2.925	1.878	3.546	2.118	5.473	12.780	28.630	27.960
12	15.990	43.170	53.230	3.502	2.544	2.330	3.104	2.440	4.973	11.870	42.890	24.710
13	12.890	42.580	48.520	3.063	2.252	1.781	2.515	3.244	4.918	14.870	45.450	20.940
14	10.500	38.160	44.060	2.808	2.008	1.536	3.050	3.134	4.534	14.560	41.750	20.600
15	8.618	30.640	41.300	2.664	1.836	1.889	6.707	2.853	4.014	13.020	37.300	39.580
16	7.319	25.410	36.570	2.682	1.571	3.098	7.443	2.949	3.828	13.160	42.960	51.350
17	6.987	21.090	30.420	2.442	1.557	3.419	7.115	4.372	3.487	15.890	42.050	44.910
18	6.721	17.330	26.060	2.200	1.338	3.034	6.828	12.440	3.063	24.700	42.350	36.640
19	6.620	14.490	22.570	2.072	1.346	2.626	5.817	14.550	3.003	29.270	40.150	47.000
20	6.442	12.160	19.740	1.938	1.383	2.522	5.177	16.980	3.789	39.310	35.630	55.670
21	7.929	10.230	17.900	1.807	1.329	2.653	4.410	18.770	4.959	39.120	44.090	54.640
22	11.370	8.755	16.270	1.725	1.652	3.132	3.484	22.430	4.881	33.840	44.670	46.220
23	14.310	7.469	14.420	1.740	2.255	2.698	3.036	22.490	6.326	28.460	49.270	38.070
24	13.980	6.515	12.720	1.593	2.144	2.520	2.462	24.820	9.372	22.800	51.260	31.430
25	13.740	8.808	11.220	1.696	5.141	5.272	2.256	28.700	13.850	19.930	55.090	28.090
26	18.260	8.628	9.845	1.404	6.954	9.444	1.994	23.500	14.150	18.110	60.730	28.430
27	17.810	9.718	8.653	1.275	6.375	11.580	1.802	19.560	19.040	17.020	43.690	26.860
28	16.840	10.630	7.390	1.291	5.588	12.910	1.606	15.650	25.390	15.110	36.690	24.110
29	17.360	6.909	6.909	1.218	5.108	12.590	1.477	16.140	28.720	13.270	29.410	21.400
30	18.430	5.791	5.791	1.171	4.458	11.200	1.501	19.150	26.160	13.360	24.240	19.940
31	18.370		5.275		3.659		1.453	17.980		14.500		24.300
Average	27.310	20.560	24.560	2.607	3.359	4.137	4.289	10.070	9.551	21.860	34.650	28.840
Lowest	6.442	6.515	5.275	1.171	1.329	1.538	1.453	1.274	3.003	11.870	18.580	12.670
Highest	110.200	47.550	53.230	4.741	6.954	12.910	9.738	28.700	28.720	39.310	55.090	55.670
Peak flow	114.900	49.720	55.350	6.329	7.257	13.330	10.490	27.830	29.330	41.780	55.640	57.740
Day of peak	4	11	12	7	26	28	1	24	29	20	25	20
Monthly total (million cu m)	73.15	49.73	65.77	7.28	9.00	10.72	11.49	26.97	24.76	58.55	89.80	77.24
Runoff (mm)	298	201	266	29	36	43	47	109	100	237	364	313
Rainfall (mm)	285	206	263	41	91	141	77	240	171	265	349	349

Statistics of monthly data for previous record (Jan 1939 to Dec 1981)

Mean flows	Avg	19.250	16.620	12.980	11.420	7.758	8.599	7.584	10.540	14.820	16.840	20.330	20.590
Low (year)	1.935	0.974	3.699	1.796	0.641	0.545	0.775	0.722	0.560	1.438	7.200	8.208	8.208
High (year)	1963	1963	1962	1974	1980	1978	1941	1955	1959	1972	1958	1963	1963
Low (year)	1975	1945	1981	1949	1964	1972	1953	1962	1946	1967	1954	1954	1954
Runoff: Avg	209	164	141	120	84	69	82	114	156	183	213	223	223
Low	21	10	40	19	7	6	8	8	6	16	76	89	89
High	412	304	325	227	184	197	184	277	356	544	381	435	435
Rainfall: Avg	225	143	173	109	121	127	136	156	223	216	239	228	228
(1964- Low	67	20	73	12	29	73	81	31	29	91	122	90	90
1981) High	439	295	341	227	241	225	225	246	379	557	363	401	401

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	16.000	13.780	118
Lowest yearly mean		9.234	1973
Highest yearly mean		21.840	1954
Lowest monthly mean	2.807	0.545	Jun 1978
Highest monthly mean	34.850	50.170	Oct 1967
Lowest daily mean	1.171	0.108	7 Oct 1972
Highest daily mean	110.200	115.900	2 Dec 1954
Peak	114.900		
10 %ile	40.170	30.180	133
50 %ile	11.770	10.210	115
95 %ile	1.591	1.320	121
Annual total (million cu m)	504.60	434.20	118
Annual runoff (mm)	2043	1758	116
Annual rainfall (mm)	2478	2095	118
[1941-70 rainfall average (mm)]		2189	

Factors affecting flow regime

● Reservoir(s) in catchment.

Station description

Compound Crump weir supersedes the original station 073001 in 1970. All flow records from 1939 combined in single sequence.

076007 Eden at Sheepmount**1982**Measuring authority: NWWA
First year: 1967Grid reference: NY 390571
Level stn. (m OD) 6.97Catchment area (sq km): 2286.5
Max alt. (m OD): 950**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	58 890	53 430	59 800	25 050	13 200	12 910	28 390	11 280	28 680	51 360	89 640	51 920
2	207 900	46 390	85 910	24 120	17 450	12 400	22 370	12 460	23 840	96 230	61 130	45 710
3	754 400	40 210	161 100	23 200	63 430	16 090	20 210	12 970	21 360	60 860	44 430	42 120
4	694 800	36 300	81 940	22 850	31 630	13 600	18 870	11 540	19 890	57 190	41 800	40 190
5	360 200	43 320	61 800	23 090	24 420	17 020	17 980	11 880	21 690	53 810	44 700	56 770
6	162 500	69 870	84 250	22 830	21 160	32 820	17 110	11 850	23 270	146 700	60 830	46 520
7	104 100	71 200	88 410	25 810	19 380	28 730	16 320	11 450	30 110	91 630	47 580	84 010
8	80 200	114 400	65 470	29 500	18 220	16 770	15 750	11 340	22 210	89 510	44 620	270 900
9	65 370	206 600	164 700	24 660	17 310	14 210	15 070	11 440	18 160	59 710	54 080	140 500
10	54 020	210 100	281 000	22 320	16 430	14 240	14 350	10 990	17 040	55 440	87 210	137 900
11	54 310	137 100	149 600	20 900	15 590	13 850	13 610	10 790	16 580	57 180	98 190	83 790
12	49 130	119 700	295 100	19 710	14 900	13 420	13 030	10 970	15 920	53 170	231 300	65 640
13	40 460	133 300	134 600	18 850	14 740	12 680	12 620	12 650	15 320	88 730	116 900	54 470
14	35 080	118 000	132 900	18 120	13 670	12 180	13 490	13 210	14 640	68 630	106 800	58 340
15	36 670	83 150	186 400	17 600	13 310	12 280	43 220	12 000	13 870	47 690	97 580	202 600
16	52 750	67 320	134 900	17 010	13 130	13 540	96 530	14 730	13 170	41 720	151 200	127 200
17	70 760	58 260	109 300	16 580	12 720	13 000	38 000	17 750	12 580	65 680	146 200	89 840
18	65 770	53 030	83 400	16 220	12 390	11 950	24 820	44 990	12 370	76 420	144 700	68 710
19	58 560	47 310	73 990	15 830	12 180	11 700	19 690	35 930	12 410	89 720	104 700	373 700
20	53 790	41 940	77 920	15 460	11 820	11 860	17 130	42 750	13 510	208 400	84 120	299 900
21	66 540	38 300	66 310	15 100	12 060	12 000	15 430	45 820	27 440	99 280	311 000	191 200
22	91 850	37 080	58 370	14 790	13 360	12 350	14 200	63 590	18 090	68 430	219 400	108 000
23	85 250	34 960	50 770	14 500	14 870	19 210	13 510	40 130	18 010	54 410	379 200	81 260
24	62 530	33 880	44 760	13 950	18 280	17 550	13 050	53 480	32 670	48 340	241 000	97 090
25	94 560	32 900	40 570	13 590	19 340	15 720	12 690	57 880	56 860	44 210	250 700	88 990
26	109 100	34 510	36 980	13 310	31 100	84 570	12 220	37 350	32 430	41 590	137 800	122 500
27	68 730	38 230	34 100	13 020	19 620	93 180	11 780	30 130	61 190	38 800	100 200	114 400
28	57 650	37 690	31 920	12 840	17 200	78 190	11 560	25 930	85 090	33 930	83 480	81 590
29	57 000		30 070	12 810	15 690	51 480	11 240	27 570	96 040	30 640	70 090	65 480
30	58 880		28 300	12 890	14 370	34 610	11 090	41 020	55 720	35 610	59 900	59 320
31	67 400		26 090		13 430		11 000	40 150		44 330		78 060
Average	125 100	72 800	95 830	18 550	18 250	24 140	19 820	25 520	28 340	66 430	123 700	110 600
Lowest	35 060	37 900	26 090	12 810	11 820	11 700	11 000	10 790	12 320	30 640	41 800	40 190
Highest	754 400	210 100	295 100	29 500	63 430	93 180	96 530	63 590	96 040	208 400	379 200	373 700
Peak flow	890 400	305 400	422 500	30 940	102 400	122 700	139 600	79 960	139 000	269 300	457 300	553 100
Day of peak	4	10	10	8	3	26	16	22	29	20	23	19
Monthly total (million cu m)	335.20	176.10	256.70	48.08	48.89	62.56	53.08	68.34	73.45	177.90	320.60	296.20
Runoff (mm)	147	77	112	21	21	27	23	30	32	78	140	130
Rainfall (mm)	161	87	130	19	65	126	54	130	90	131	194	169

Statistics of monthly data for previous record (Oct 1967 to Dec 1981—incomplete or missing months total 3.0 years)

Mean flows	Avg	80 150	60 270	51 350	40 470	27 210	22 530	20 890	21 060	37 110	64 590	72 620	64 490
	Low	42 850	37 540	24 360	13 070	11 050	10 420	9 732	7 026	9 218	7 965	30 420	32 480
	(year)	1973	1973	1975	1974	1974	1973	1976	1976	1972	1972	1973	1971
	High	151 200	100 000	119 700	63 960	43 000	50 380	36 990	54 790	87 320	225 000	106 700	139 200
	(year)	1975	1974	1968	1970	1969	1972	1968	1971	1968	1967	1970	1974
Runoff	Avg	94	64	60	46	32	26	24	25	47	76	82	76
	Low	50	40	28	15	13	12	11	8	10	9	34	38
	High	177	106	140	73	50	57	43	64	99	264	123	163
Rainfall	Avg	123	74	93	60	67	75	81	91	108	108	137	109
(1988: Low		74	28	43	8	28	37	45	19	26	31	54	43
1981) High		232	129	177	111	119	168	122	161	186	178	200	210

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	60 790	46 840	130
Lowest yearly mean		28 180	1973
Highest yearly mean		59 740	1968
Lowest monthly mean	18 250	7 026	Aug 1976
Highest monthly mean	125 100	225 000	Oct 1967
Lowest daily mean	10 790	5 468	7 Sep 1976
Highest daily mean	754 400	772 900	23 Mar 1968
Peak	890 400	1 357 000	24 Mar 1968
10 %ile	131 500	96 140	137
50 %ile	38 800	29 540	131
95 %ile	11 960	9 460	126
Annual total (million cu m)	1917.00	1478.00	130
Annual runoff (mm)	838	647	130
Annual rainfall (mm)	1358	1126	120
{1941-70 rainfall average (mm)		1240}	

Station description
Velocity-area station**Factors affecting flow regime**

- Reservoir(s) in catchment
- Abstraction for public water supplies

079006 Nith at Drumlanrig**1982**Measuring authority: SRPB
First year: 1967Grid reference: NX 858994
Level stn. (m OD) 52.20Catchment area (sq km): 471.0
Max alt. (m OD): 725

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18 030	23 620	21 520	4 187	2 743	1 859	6 986	1 458	3 729	137 600	40 170	9 159
2	76 830	21 000	40 620	4 368	20 160	1 717	4 830	1 392	2 856	55 610	21 080	7 862
3	175 400	14 270	28 640	4 272	47 650	1 642	3 934	1 345	2 623	25 230	15 170	7 222
4	101 900	13 050	21 190	5 237	18 540	4 588	4 584	1 295	2 713	25 260	12 970	17 750
5	43 440	46 630	13 380	4 774	13 730	2 258	8 248	1 229	2 705	19 890	111 300	15 280
6	23 880	26 400	50 420	4 902	15 220	2 348	5 720	1 297	2 779	14 310	82 430	11 390
7	16 300	27 020	20 740	5 748	9 838	2 215	3 731	1 338	4 988	11 890	33 900	27 860
8	14 020	74 980	22 830	4 649	8 993	1 779	2 935	1 342	6 407	10 050	25 930	62 030
9	12 000	65 770	81 620	3 905	5 494	1 633	2 498	1 410	4 000	8 498	29 290	25 910
10	12 780	43 770	59 380	3 590	4 523	1 579	2 848	1 423	7 863	9 427	45 270	22 990
11	31 200	35 210	46 330	3 244	3 882	1 923	2 511	1 404	6 621	8 640	60 700	15 050
12	31 340	106 500	88 260	3 050	3 464	1 920	1 998	1 633	4 545	15 430	74 190	11 520
13	19 370	49 160	57 830	2 896	3 041	1 693	1 765	1 531	3 734	30 080	37 240	9 175
14	14 890	75 690	71 190	2 751	2 653	1 586	1 661	1 399	3 227	16 910	35 110	20 410
15	14 660	17 380	39 610	2 552	2 441	1 814	11 160	1 297	2 915	10 840	79 770	97 300
16	39 300	13 500	38 800	2 392	2 512	2 537	21 030	1 656	2 635	66 910	68 020	37 250
17	39 160	10 490	31 990	2 312	2 343	1 854	5 722	1 612	2 414	212 300	63 090	23 810
18	39 180	9 427	23 910	2 237	3 306	1 595	4 010	2 868	2 207	84 650	74 280	51 490
19	34 350	8 547	19 530	2 156	3 309	1 531	3 036	2 824	2 148	56 360	69 640	231 700
20	45 770	7 299	17 010	2 064	2 574	1 831	2 460	4 203	9 413	67 850	66 100	113 400
21	63 690	6 200	23 680	1 975	2 442	2 055	2 133	5 346	6 168	33 820	83 600	54 700
22	54 360	5 993	19 710	1 955	3 635	1 632	1 875	10 790	3 906	36 650	41 160	25 340
23	29 230	5 599	14 480	1 970	5 698	1 633	1 729	6 663	4 100	21 300	132 600	36 590
24	19 190	7 732	12 740	1 890	4 079	1 550	1 647	15 350	84 990	19 400	59 150	58 420
25	40 890	32 420	10 110	1 812	3 928	1 540	1 553	9 277	47 980	14 910	33 930	35 960
26	34 330	43 700	7 833	1 776	3 321	4 077	1 491	5 338	45 070	36 650	22 270	24 840
27	16 820	15 510	6 579	1 732	2 653	4 984	1 565	3 747	106 300	17 260	16 910	30 170
28	18 630	22 430	5 795	1 694	2 637	9 826	1 527	2 924	115 700	12 260	20 210	22 580
29	48 780		5 270	1 692	2 400	6 413	1 434	11 730	40 290	18 200	13 840	16 250
30	43 660		4 627	2 269	2 057	4 682	1 350	11 550	22 870	53 910	11 150	25 770
31	38 930		4 309		1 935		1 340	6 845		36 250		22 070
Average	39 110	27 830	29 350	3 000	6 748	2 608	3 848	3 984	18 600	38 330	49 350	37 780
Lowest	12 000	5 599	4 309	1 692	1 935	1 531	1 340	1 229	7 148	8 498	11 150	7 222
Highest	175 400	106 500	88 260	5 748	47 650	9 826	21 030	15 350	115 700	212 300	132 600	231 700
Peak flow	291 800	219 100	198 200	6 408	73 670	18 230	60 280	27 860	254 400	538 400	271 700	476 300
Day of peak	3	12	9	7	3	4	15	24	27	17	23	19
Monthly total (million cu m)	104 70	67 33	78 61	7 78	18 07	6 76	10 31	10 67	48 20	102 70	127 90	101 20
Runoff (mm)	222	143	167	17	38	14	22	23	102	218	272	215
Rainfall (mm)	182	167	182	38	99	94	59	121	196	246	285	246

Statistics of monthly data for previous record (Jun 1967 to Dec 1981)

Mean flows	Avg	27 770	19 640	17 050	9 489	7 358	5 408	5 086	6 018	13 570	20 820	26 660	22 590
	Low	14 220	9 269	4 428	2 457	1 389	1 879	1 511	1 074	1 261	2 745	14 890	12 770
	(year)	1980	1979	1969	1974	1980	1978	1976	1978	1972	1972	1967	1971
	High	81 220	30 930	33 190	24 190	16 030	14 660	10 360	21 010	25 510	39 200	39 790	41 880
	(year)	1974	1970	1978	1972	1968	1972	1970	1980	1981	1987	1977	1974
Runoff	Avg	158	102	97	52	42	30	29	34	75	118	147	128
	Low	81	48	25	14	8	10	9	6	7	16	82	73
	High	348	159	189	133	91	81	59	119	140	223	219	239
Rainfall	Avg	175	111	120	72	97	87	95	91	150	167	177	145
	Low	87	32	34	11	19	52	55	23	20	66	94	69
	High	398	170	217	175	213	163	144	179	241	301	252	282

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	21 700	15 100	144
Lowest yearly mean		10 720	1971
Highest yearly mean		19 140	1981
Lowest monthly mean	2 608	1 074	Aug 1976
Highest monthly mean	49 350	61 220	Jan 1974
Lowest daily mean	1 229	0 746	28 Aug 1976
Highest daily mean	231 700	227 800	30 Jan 1974
Peak	538 400	449 200	30 Oct 1977
10 %ile	58 620	38 100	154
50 %ile	9 638	7 807	123
95 %ile	1 516	1 357	112
Annual total (million cu m)	684 30	478 50	144
Annual runoff (mm)	1453	1012	144
Annual rainfall (mm)	1913	1487	128
[1941-70 rainfall average (mm)]		1584]	

Station description
Velocity-area station

Factors affecting flow regime

- Reservoir(s) in catchment.
- Abstraction for public water supplies

084005 Clyde at Blairston**1982**Measuring authority: CRPB
First year: 1958Grid reference: NS 704579
Level stn (m OD) 17.60Catchment area (sq km): 1704.2
Max alt. (m OD): 732**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	43 020	59 440	82 850	17 180	10 460	9 934	14 880	7 882	15 340	89 610	101 800	42 950
2	152 200	64 830	109 600	16 640	26 900	9 281	14 340	8 675	11 970	108 500	69 080	38 850
3	489 700	43 520	112 300	15 920	73 510	9 223	12 210	8 034	11 200	59 700	54 020	32 040
4	348 000	38 440	84 400	18 080	45 500	8 979	12 170	8 001	29 950	64 060	47 720	35 340
5	125 700	59 940	44 430	18 700	46 050	10 040	19 940	10 070	67 320	56 220	114 500	42 690
6	67 400	68 270	81 280	27 450	55 870	10 610	18 830	9 463	39 500	49 820	173 700	38 100
7	44 840	69 790	58 760	44 100	34 390	10 920	13 320	8 226	40 730	46 350	77 640	55 490
8	38 580	166 300	51 380	32 960	22 580	8 821	11 550	8 109	28 480	41 630	68 450	150 100
9	30 810	197 200	112 900	22 210	18 200	8 330	10 280	8 443	19 080	34 560	62 120	81 510
10	21 880	146 300	185 400	18 140	15 490	7 922	9 687	8 020	33 000	36 110	114 300	72 840
11	21 260	96 700	109 700	16 280	14 590	14 740	9 372	7 980	30 200	46 600	105 700	55 170
12	25 650	108 200	179 900	15 080	13 450	14 560	9 244	8 085	20 140	45 910	147 800	42 880
13	26 520	103 700	116 400	13 960	12 530	10 980	8 935	8 225	16 880	88 250	91 350	35 180
14	22 170	83 910	132 900	13 370	11 970	9 314	9 246	8 206	13 760	89 640	87 000	61 330
15	19 880	50 760	114 600	12 790	11 860	11 980	28 730	8 498	12 480	50 510	111 200	255 500
16	78 940	41 480	128 000	12 020	11 610	15 300	58 980	10 080	11 680	55 810	189 700	121 500
17	128 500	34 560	95 870	11 370	11 150	11 500	24 930	13 520	11 280	150 700	178 200	74 030
18	117 800	31 880	88 610	11 190	12 190	9 215	15 620	18 310	10 500	198 900	258 000	106 700
19	85 210	29 720	55 010	10 920	12 030	8 508	12 600	35 140	11 820	124 300	272 100	428 000
20	71 450	26 030	49 230	10 480	11 700	8 287	11 110	18 840	19 680	178 300	177 900	286 600
21	101 100	23 700	46 900	10 290	11 690	8 554	10 150	19 110	24 140	91 740	203 700	136 300
22	129 100	22 160	46 180	10 900	14 840	7 987	9 345	32 570	16 150	73 640	146 100	79 930
23	81 700	20 500	37 350	10 860	15 920	8 285	8 925	24 000	13 990	62 150	399 700	66 400
24	58 730	20 320	32 310	10 450	15 850	8 654	8 684	37 240	70 160	54 360	223 600	92 620
25	91 000	21 480	28 930	9 935	13 900	9 928	8 514	32 620	82 580	48 620	128 200	76 550
26	112 600	33 540	28 180	9 702	13 150	14 310	8 415	21 280	50 680	51 770	88 550	72 890
27	83 600	30 520	23 210	9 371	12 140	19 790	8 319	15 240	198 600	52 880	71 160	93 010
28	81 170	43 150	21 720	9 055	11 730	38 830	8 220	12 580	174 300	39 390	62 420	78 520
29	90 300	19 960	9 093	11 060	33 670	8 053	30 740	103 500	44 170	55 950	61 100	78 010
30	96 600	18 690	9 484	10 700	16 820	7 822	37 990	65 330	143 500	50 840	78 010	85 710
31	72 820	17 880	9 611	7 634	21 470	106 200						
Average	93 380	60 830	71 960	15 280	19 730	12 440	13 420	16 340	41 710	76 890	131 000	95 990
Lowest	19 880	20 320	17 880	9 055	9 611	7 922	7 634	7 882	10 500	34 560	47 720	32 040
Highest	489 700	197 200	185 400	44 100	73 510	38 830	58 980	37 990	198 600	198 900	399 700	428 000
Peak flow	534 200	233 400	240 700	48 440	81 280	49 250	75 240	51 420	282 800	266 100	487 100	451 700
Day of peak	4	9	10	7	3	29	16	19	27	18	23	20
Monthly total (million cu m)	250.10	147.20	192.70	39.57	52.84	32.25	35.95	43.77	108.10	205.90	339.80	257.10
Runoff (mm)	147	86	113	23	31	19	21	26	63	121	199	151
Rainfall (mm)	135	90	125	35	80	80	50	109	137	162	211	176

Statistics of monthly data for previous record (Oct 1958 to Dec 1981)

Mean	Avg	60 580	48 930	42 860	29 890	23 360	17 430	14 970	23 280	35 360	48 470	63 920	61 180
Flow	Low	11 920	8 855	14 810	10 430	8 832	8 127	8 361	7 654	7 627	8 246	26 620	28 080
	(year)	1963	1963	1969	1974	1980	1961	1978	1976	1972	1972	1958	1963
	High	134 300	80 580	88 940	58 700	51 980	41 190	29 700	57 520	74 550	114 600	119 300	115 100
	(year)	1975	1982	1979	1972	1987	1972	1965	1962	1982	1967	1979	1974
Runoff	Avg	95	70	67	45	37	27	24	37	54	76	97	96
	Low	19	13	23	16	14	12	13	12	12	13	40	41
	High	211	114	140	89	82	63	47	90	113	180	181	181
Rainfall	Avg	108	74	78	66	77	75	86	93	111	113	120	108
	Low	26	23	28	9	23	43	39	24	16	33	43	38
	High	237	127	140	125	127	157	125	201	196	231	221	209

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	54.070	39.140	138
Lowest yearly mean		27 090	1973
Highest yearly mean		49 550	1979
Lowest monthly mean	12 440	7 627	Sep 1972
Highest monthly mean	131 000	134 300	Jan 1975
Lowest daily mean	7 634	4 502	11 Oct 1959
Highest daily mean	489 700	643 700	31 Oct 1977
Peak	534 200	762 600	31 Oct 1977
10 %ile	124 300	89 490	139
50 %ile	32 450	22 880	142
95 %ile	8 338	8 180	102
Annual total (million cu m)	1705.00	1235.00	138
Annual runoff (mm)	1001	725	138
Annual rainfall (mm)	1390	1108	126
[1941-70 rainfall average (mm)]		1151]	

Station description
Velocity-area station**Factors affecting flow regime**

085003 Falloch at Glen Falloch**1982**Measuring authority: CRPB
First year: 1970Grid reference: NN 321197
Level stn. (m OD) 9.50Catchment area (sq km): 80.3
Max. alt. (m OD): 1130

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.008	10.880	10.500	2.757	1.850	0.569	2.303	0.064	1.357	40.840	3.726	2.460
2	10.560	4.338	38.400	2.395	16.810	0.420	7.973	0.079	1.133	4.982	3.845	1.470
3	7.614	2.286	21.140	4.600	12.340	0.343	5.213	0.069	10.100	2.930	2.312	1.324
4	2.272	14.980	3.187	6.949	3.567	0.265	7.380	0.046	5.635	6.673	2.772	11.410
5	1.604	12.770	14.900	4.653	4.261	0.217	3.169	0.074	9.783	2.688	27.110	3.033
6	1.342	9.925	15.000	5.944	2.545	0.300	1.895	0.533	10.650	1.618	25.480	1.895
7	0.777	5.939	3.574	6.741	1.906	0.271	1.765	0.273	13.680	1.359	5.659	2.895
8	0.795	25.020	4.925	1.909	2.295	0.191	1.158	0.686	4.587	1.126	3.991	7.887
9	0.806	4.921	15.400	1.510	2.020	0.166	1.640	0.623	14.860	0.958	13.060	2.645
10	0.481	8.336	10.880	1.248	2.353	0.166	1.118	0.476	17.380	1.219	12.280	2.084
11	0.665	5.320	3.567	0.962	2.154	2.010	0.795	0.510	9.275	1.430	24.210	1.352
12	0.603	40.210	3.050	0.791	1.582	1.281	0.802	1.840	12.600	5.882	10.840	1.277
13	0.546	5.234	11.510	0.779	1.630	0.580	0.496	1.024	3.127	6.337	5.274	1.451
14	0.580	3.295	12.180	1.308	1.294	0.373	0.439	0.541	2.875	1.875	2.720	41.870
15	0.515	2.036	5.774	1.633	0.939	0.478	0.707	1.080	3.597	3.798	26.510	31.520
16	6.562	1.423	3.605	1.562	0.845	0.431	0.481	10.320	4.068	20.530	8.871	3.397
17	7.366	1.314	4.588	0.968	0.694	0.333	0.669	15.470	2.042	27.190	26.860	1.732
18	16.710	1.236	2.762	0.842	0.589	0.255	0.379	7.156	1.748	12.570	17.540	19.400
19	30.520	1.180	1.920	0.892	0.541	0.220	0.267	8.920	7.092	17.220	20.270	24.300
20	29.240	0.911	1.696	0.864	0.578	0.348	0.214	4.185	17.770	8.833	14.800	8.324
21	19.840	0.865	4.451	0.949	0.656	0.281	0.177	12.560	5.859	5.936	18.070	2.604
22	7.559	0.986	4.175	1.949	1.838	0.214	0.139	17.490	8.909	4.918	12.780	1.554
23	3.633	1.812	7.420	2.657	1.411	0.154	0.121	4.218	14.990	4.484	5.698	19.470
24	6.424	13.520	9.088	1.505	2.078	0.135	0.115	13.680	35.340	4.648	3.952	16.120
25	26.940	11.500	4.676	1.219	5.443	0.263	0.103	18.250	10.380	5.314	5.571	35.130
26	7.642	17.420	2.913	1.024	2.024	0.374	0.100	9.392	20.130	18.450	2.359	10.910
27	9.188	9.097	2.078	0.888	1.652	0.637	0.091	2.569	22.110	3.229	1.821	5.385
28	22.520	18.110	1.639	0.767	2.029	3.071	0.089	3.369	27.920	2.060	2.280	4.765
29	34.640	1.343	0.740	0.740	1.840	1.783	0.092	22.100	4.909	16.130	3.173	6.764
30	43.930	1.187	3.300	0.955	0.955	1.696	0.074	4.356	18.730	14.240	4.724	17.380
31	7.730	1.286		0.711			0.060	2.028		10.690		29.120
Average	10.040	8.387	7.316	2.140	2.629	0.594	1.281	5.289	10.790	8.382	10.610	10.350
Lowest	0.481	0.865	1.187	0.740	0.541	0.135	0.060	0.046	1.133	0.958	1.821	1.277
Highest	43.930	40.210	38.400	6.949	16.810	3.071	7.973	22.100	35.340	40.840	27.110	41.870
Peak flow	120.100	113.000	90.940	14.900	37.780	8.064	17.700	58.740	165.000	159.100	106.000	165.000
Day of peak	30	12	3	7	2	28	2	29	28	1	12	18
Monthly total (million cu m)	28.90	20.29	19.60	5.55	7.04	1.54	3.43	14.17	27.96	22.45	27.50	27.73
Runoff (mm)	335	253	244	69	88	19	43	176	348	280	343	345
Rainfall (mm)	296	310	351	82	162	72	66	308	454	314	448	407

Statistics of monthly data for previous record (Oct 1970 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg	8.957	5.368	5.736	2.804	2.714	2.836	2.540	2.990	6.641	6.363	9.276	6.999
Flows:	Low	3.698	1.840	0.854	0.408	0.133	0.328	1.246	0.492	0.751	1.362	5.679	1.416
	(year)	1980	1975	1975	1974	1980	1977	1976	1972	1974	1975	1981	
	High	19.630	8.139	11.360	6.326	6.422	5.609	3.495	5.149	11.210	11.630	13.830	15.650
	(year)	1974	1974	1979	1977	1976	1973	1980	1978	1981	1971	1978	1974
Runoff:	Avg	299	163	191	91	91	92	85	100	211	212	299	233
	Low	123	55	28	13	4	11	42	18	24	45	183	47
	High	655	245	379	204	214	181	117	172	362	385	446	522
Rainfall:	Avg	371	218	199	129	151	163	176	151	281	282	359	307
	Low	172	136	100	15	20	67	111	42	40	100	257	111
	High	716	282	358	261	288	249	329	254	457	475	498	637

Summary statistics

Factors affecting flow regime

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	6.474	5.258	123
Lowest yearly mean		4.440	1972
Highest yearly mean		8.144	1974
Lowest monthly mean	0.594	0.133	May 1980
Highest monthly mean	10.790	19.630	Jan 1974
Lowest daily mean	0.046	0.032	12 Jul 1977
Highest daily mean	43.930	113.400	2 Mar 1979
Peak	165.000	226.700	22 Oct 1971
10 %ile	17.930	14.520	123
50 %ile	2.746	1.966	140
95 %ile	0.170	0.233	73
Annual total (million cu m)	204.20	165.90	123
Annual runoff (mm)	2543	2066	123
Annual rainfall (mm)	3258	2787	117
[1941-70 rainfall average (mm)]		2732]	

Station description

Velocity-area station. Artificial low flow control from 1975

201005 Camowen at Camowen Terrace**1982**Measuring authority DOEN
First year: 1972Grid reference: IH 460730
Level stn. (m OD) 66.00Catchment area (sq km): 274.6
Max alt. (m OD): 539**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5.008	3.336	12.410	2.238	0.968	0.787	3.651	0.781	1.432	4.956	11.580	2.990
2	28.530	3.295	8.444	2.126	1.660	0.708	2.066	0.784	1.199	2.457	4.579	2.730
3	65.840	2.749	14.800	2.083	1.718	0.713	1.536	0.774	1.084	13.390	3.469	2.459
4	28.530	3.042	7.124	2.187	2.330	0.711	1.317	0.793	1.440	17.010	3.266	4.923
5	19.860	4.620	4.932	2.225	2.117	0.695	1.193	0.808	1.712	8.360	13.930	4.405
6	8.400	4.083	14.550	2.065	1.698	0.746	1.153	0.850	1.427	4.121	14.670	3.251
7	5.688	4.835	7.940	1.908	1.274	0.788	1.041	0.835	1.649	3.203	11.570	35.510
8	4.523	7.194	5.602	1.675	1.134	0.711	1.007	0.898	1.196	2.661	26.530	30.680
9	5.461	11.540	12.260	1.593	1.064	0.707	0.961	0.872	0.990	2.194	12.040	11.300
10	9.878	6.153	21.180	1.571	0.998	0.998	0.944	0.824	3.322	1.921	31.130	7.415
11	8.195	4.155	22.590	1.495	0.906	1.902	0.903	0.748	1.817	1.855	13.140	5.027
12	3.687	6.485	22.890	1.448	0.882	1.421	0.823	0.758	1.370	11.670	10.440	11.220
13	3.251	4.644	15.890	1.350	0.873	1.119	0.868	0.763	1.112	7.216	7.744	5.512
14	3.011	3.569	14.740	1.280	0.888	0.952	1.159	0.751	0.942	4.020	10.790	10.660
15	2.807	2.963	9.922	1.252	1.004	2.468	1.066	0.804	0.879	3.599	8.290	10.960
16	7.715	2.687	11.890	1.211	1.042	2.569	0.942	1.152	0.812	12.630	9.549	7.362
17	4.184	2.437	14.390	1.171	1.047	1.298	0.909	1.015	0.786	10.770	9.600	5.444
18	4.621	2.339	10.290	1.171	1.484	1.073	0.880	1.084	0.770	7.434	18.590	17.600
19	5.700	2.264	13.020	1.153	1.247	1.218	0.798	1.593	0.889	7.565	33.480	45.800
20	5.732	2.354	9.176	1.135	1.022	1.366	0.771	1.336	1.590	11.220	20.960	45.960
21	15.910	14.370	8.049	0.928	0.980	1.080	0.771	1.096	1.369	5.158	17.720	23.010
22	9.669	5.208	5.788	0.904	1.450	1.227	0.772	1.085	1.952	3.740	18.260	9.380
23	5.213	3.547	4.614	0.929	1.649	2.044	0.777	1.488	2.153	3.212	50.650	33.240
24	4.222	3.543	3.939	0.897	1.246	1.455	0.770	6.317	3.814	2.912	17.750	11.590
25	6.247	25.050	3.498	0.890	1.056	11.290	0.741	2.649	2.881	2.544	10.150	8.922
26	11.220	13.260	3.184	0.856	0.939	7.884	0.728	2.354	4.431	4.145	7.286	10.010
27	5.358	6.022	2.981	0.839	0.921	8.452	0.687	1.959	3.736	2.865	5.758	9.744
28	4.115	4.927	2.778	0.817	1.086	13.720	0.751	1.351	4.181	2.251	4.868	6.489
29	4.138		2.652	0.926	0.949	5.442	0.748	1.338	2.385	2.370	3.986	5.057
30	4.289		2.462	0.991	0.847	3.844	0.745	2.883	2.527	9.975	3.378	5.719
31	3.894		2.299		0.813		0.764	1.822		7.759		5.117
Average	9.764	5.738	8.551	1.377	1.203	2.639	1.040	1.373	1.861	5.812	13.770	12.890
Lowest	2.807	2.264	2.299	0.817	0.813	0.695	0.687	0.748	0.770	1.855	3.268	2.459
Highest	65.840	25.050	22.890	2.238	2.330	13.720	3.651	6.317	4.431	13.390	50.650	45.960
Peak flow	115.100	54.500	65.930	2.333	2.848	19.910	5.668	10.990	5.763	34.320	97.360	92.500
Day of peak	4	25	12	1	4	28	1	24	30	4	23	8
Monthly total (million cu m)	26.15	13.88	25.58	3.57	3.22	6.84	2.79	3.68	4.82	15.57	35.70	34.52
Runoff (mm)	95	51	93	13	12	25	10	13	18	57	130	128
Rainfall (mm)	100	91	122	20	70	118	20	100	83	114	165	155

Statistics of monthly data for previous record (May 1972 to Dec 1981)

Mean flows	Avg	13.010	9.139	7.334	3.814	3.745	2.385	2.086	2.682	5.205	6.554	9.312	11.720
Low		8.859	3.320	2.504	1.693	0.751	1.053	0.965	0.999	0.873	1.197	5.458	5.295
(year)		1979	1979	1973	1980	1980	1974	1979	1981	1972	1972	1980	1975
High		18.070	20.480	13.200	8.779	7.954	5.051	4.698	5.551	9.655	12.990	17.540	22.470
(year)		1978	1977	1978	1977	1972	1972	1972	1979	1978	1976	1979	1978
Runoff, Avg.		127	81	72	38	37	23	20	26	49	64	88	114
Low		88	29	24	16	7	10	9	10	8	12	52	52
High		176	180	129	84	78	48	48	54	91	127	166	219
Rainfall, Avg		126	82	99	58	81	64	77	82	109	101	118	120
Low		83	34	38	21	20	28	45	70	13	55	78	39
High		163	161	145	100	144	96	102	147	177	171	182	179

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	5.591	6.409	87
Lowest yearly mean		4.319	1975
Highest yearly mean		8.710	1978
Lowest monthly mean	1.040	0.751	May 1980
Highest monthly mean	13.770	22.470	Dec 1978
Lowest daily mean	0.687	0.582	23 May 1980
Highest daily mean	65.840	123.300	3 Jan 1973
Peak	115.100	4 Jan	
10 %ile	13.160	14.300	92
50 %ile	2.645	3.615	73
95 %ile	0.762	1.014	75
Annual total (million cu m)	178.30	202.30	87
Annual runoff (mm)	642	737	87
Annual rainfall (mm)	1158	1115	104
[1941-70 rainfall average (mm)]		920]	

Factors affecting flow regime

- Abstraction for public water supplies.
- Augmentation from effluent returns

Station description

Velocity-area station with cableway, weir control

205005 Ravernet at Ravernet**1982**Measuring authority: DOEN
First year: 1972Grid reference: IJ 267613
Level stn. (m OD) 31.00Catchment area (sq km): 69.5
Max alt. (m OD): 163**Daily mean gauged discharges (cubic metres per second)**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4 012	1 889	2 266	1 190	0 676	0 600	2 509	0 529	0 618	4 189	4 412	2 199
2	7 239	1 822	2 418	1 164	0 790	0 578	2 233	0 528	0 592	3 674	3 274	2 044
3	9 267	1 711	2 437	1 145	0 842	0 524	2 006	0 535	0 570	5 846	2 893	1 906
4	7 265	1 738	2 243	1 243	0 916	0 510	1 785	0 630	0 597	5 890	2 852	1 992
5	8 139	1 938	2 154	1 228	0 814	0 500	1 635	0 562	0 633	4 747	4 407	2 213
6	5 345	1 835	3 429	1 197	0 781	0 502	1 506	0 546	0 627	3 848	13 220	2 149
7	4 248	1 784	2 812	1 199	0 762	0 492	1 386	0 524	0 627	3 447	8 723	5 098
8	3 657	1 845	2 553	1 110	0 749	0 474	1 261	0 520	0 620	3 105	13 650	4 799
9	3 230	3 527	3 811	1 100	0 726	0 582	1 224	0 485	0 555	2 829	7 601	3 656
10	2 837	3 352	3 831	1 102	0 713	0 919	1 142	0 476	0 587	2 601	7 144	3 279
11	2 486	2 847	4 894	1 084	0 690	1 556	1 081	0 466	0 587	2 570	5 858	2 928
12	2 243	2 810	4 618	1 048	0 681	1 122	1 011	0 447	0 553	2 782	4 718	2 706
13	2 063	2 590	4 049	1 032	0 652	0 990	0 975	0 444	0 548	3 080	3 969	2 491
14	1 832	2 370	3 551	1 019	0 660	0 907	0 940	0 438	0 525	2 805	3 535	2 774
15	1 999	2 217	3 080	0 999	0 658	1 106	0 908	0 447	0 511	2 644	3 624	2 896
16	3 000	2 085	2 736	0 936	0 680	1 079	0 871	0 473	0 517	8 369	3 565	2 841
17	2 430	1 950	2 599	0 922	0 667	0 969	0 835	0 478	0 517	7 731	3 169	2 419
18	2 393	1 778	2 509	0 899	0 668	0 930	0 790	0 528	0 521	5 151	3 083	2 456
19	2 839	1 674	2 452	0 806	0 653	1 033	0 740	0 492	0 558	4 498	3 510	5 003
20	4 177	1 587	2 382	0 784	0 574	1 032	0 706	0 496	0 569	4 425	3 641	7 103
21	5 268	1 742	2 344	0 775	0 615	0 956	0 684	0 485	0 544	3 729	3 921	4 721
22	4 436	1 873	2 166	0 741	0 681	2 532	0 717	0 480	0 522	3 255	3 629	3 893
23	3 786	1 789	2 000	0 735	0 672	2 953	0 727	0 526	0 541	2 848	5 953	5 769
24	3 373	2 381	1 869	0 710	0 648	2 493	0 692	1 107	1 800	2 599	4 575	4 458
25	3 170	2 842	1 766	0 709	0 626	5 276	0 654	0 983	2 193	2 426	3 990	3 765
26	2 997	2 735	1 640	0 702	0 615	4 308	0 624	0 864	4 850	2 523	3 502	3 657
27	2 677	2 483	1 575	0 694	0 647	3 618	0 593	0 787	3 523	2 271	3 213	3 278
28	2 416	2 360	1 509	0 687	0 644	3 461	0 559	0 694	4 016	1 998	2 869	2 948
29	2 251		1 419	0 682	0 632	3 438	0 511	0 688	3 253	1 915	2 604	2 710
30	2 103		1 335	0 676	0 619	3 056	0 516	0 671	2 870	2 846	2 395	2 793
31	1 973		1 295		0 613		0 524	0 641		3 198		2 783
Average	3 714	2 199	2 572	0 944	0 689	1 616	1 043	0 578	1 184	3 656	4 783	3 340
Lowest	1 832	1 587	1 295	0 676	0 574	0 474	0 511	0 438	0 511	1 915	2 395	1 906
Highest	9 267	3 527	4 894	1 243	0 916	5 276	2 509	1 107	4 850	8 369	13 650	7 103
Peak flow	21 860	5 181	7 559	1 346	0 993	7 103	2 827	1 348	6 639	12 860	18 290	9 731
Day of peak	3	9	12	4	4	25	1	24	26	16	8	20
Monthly total (million cu m)	9 95	5 32	6 89	2 45	1 84	4 19	2 80	1 55	3 07	9 79	12 40	8 95
Runoff (mm)	143	77	89	35	27	60	40	22	44	141	178	129
Rainfall (mm)	88	60	71	17	38	127	13	78	105	118	149	105

Statistics of monthly data for previous record (Aug 1972 to Dec 1981—incomplete or missing months total 0.9 years)

	Avg	2 913	2 011	1 471	0 858	0 777	0 505	0 207	0 217	0 788	2 094	1 728	3 075
Mean flows	Low	1 978	1 092	0 334	0 221	0 085	0 043	0 022	0 009	0 066	0 319	0 947	0 585
	(year)	1976	1975	1973	1974	1980	1975	1975	1978	1972	1978	1975	1976
	High	4 198	3 664	3 566	2 481	3 234	2 527	0 951	0 777	2 379	4 799	3 277	11 690
	(year)	1974	1977	1981	1979	1981	1981	1981	1981	1974	1976	1979	1978
Runoff	Avg	112	71	57	32	30	19	8	8	29	81	64	119
	Low	76	38	13	8	3	2	1	0	3	12	35	23
	High	162	178	137	92	125	94	37	30	89	185	122	450
Rainfall	Avg	101	59	69	44	71	57	61	62	93	92	80	96
	Low	57	21	21	11	21	22	34	14	9	31	44	22
	High	154	108	114	97	156	105	85	95	160	207	123	268

Summary statistics

	For 1982	For record preceding 1982	1982 As % of pre-1982
Mean flow (m ³ s ⁻¹)	2 194	1 387	158
Lowest yearly mean		0 763	1975
Highest yearly mean		2 457	1981
Lowest monthly mean	0 578	0 009	Aug 1976
Highest monthly mean	4 783	11 690	Dec 1978
Lowest daily mean	0 438	0 001	31 Aug 1976
Highest daily mean	13 650	57 820	28 Dec 1978
Peak	21 860		3 Jan
10 %ile	4 327	3 219	134
50 %ile	1 846	0 794	232
95 %ile	0 508	0 029	1775
Annual total (million cu m)	69 19	43 78	158
Annual runoff (mm)	998	630	158
Annual rainfall (mm)	969	885	109
[1941-70 rainfall average (mm)]			

Factors affecting flow regime

- Flow reduced by industrial and/or agricultural abstractions.

Station description

Velocity-area station. Flat V weir from 1976. Crest level is 31.535 m O.D.

Part (ii) - the monthly flow data

The introductory information (measuring authority etc) is as described in Part (i).

Hydrometric statistics for the year

The monthly average, peak flow, runoff and rainfall figures are equivalent to the summary information following the daily mean gauged discharges in Part (i). Because of the rounding of monthly runoff values the runoff for the year may differ slightly from the sum of the individual monthly totals.

Monthly and yearly statistics for previous record

Monthly mean flows (Average, Low and High) and the monthly rainfall and runoff figures are equivalent to those presented in Part (i). Again, due to the rounding of monthly runoff values, the average runoff for the year derived from the previous record may differ slightly from the sum of the individual monthly totals. The peak flow is the highest archived discharge in cubic metres per second for each month. For many stations the archived series of monthly instantaneous maximum flows, from which the preceding record peak is abstracted, is incomplete, particularly for the earlier years, and certain of the peak flows are known to be of limited accuracy. An examination of the quality of the peak flow figures is underway and significant revision may be expected as this review proceeds.

The figures are published primarily to provide a guide to the range of river flows experienced throughout the year at the featured gauging stations.

Factors affecting flow regime

Code letters are used as described in Part (i)

Station type

The station type is coded by the list of abbreviations given below: two abbreviations may be applied to each station relating to the measurement of lower or higher flows.

B	Broad-crested weir
C	Crump (triangular profile) single crest weir
CB	Compound broad-crested weir. The compounding may include a mixture of types such as rectangular and triangular profiles, flumes and flat Vs and with or without divide walls
CC	Compound Crump weir
EM	Electromagnetic gauging station
EW	Essex weir (simple Crump weir modified with angled, sloping, triangular profile flanking crests) in trapezoidal channel
FL	Flume
FV	Flat V triangular profile weir
MIS	Miscellaneous method
TP	Rectangular thin-plate weir
US	Ultrasonic gauging station
VA	Velocity-area gauging station
VN	Triangular (V notch) thin-plate weir

004001 Conon at Moy Bridge**1982**Measuring authority: HRPB
First year: 1953Grid reference: NH 482547
Level stn. (m OD) 10.03Catchment area (sq km): 961.8
Max alt. (m OD): 1052

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	71.480	84.830	74.890	35.680	38.890	19.880	17.630	31.440	57.570	58.700	83.880	97.930	54.397
(m ³ s ⁻¹)	Peak	408.20	153.40	137.80	130.80	121.50	123.60	57.59	84.19	101.00	181.80	247.40	293.40	408.20
Runoff (mm)		199	163	209	98	108	54	49	88	155	163	228	273	1783
Rainfall (mm)		216	140	217	75	142	30	66	210	222	178	297	305	2098

Monthly and yearly statistics for previous record (Oct 1953 to Dec 1981—incomplete or missing months total 5.6 years)

Mean	Avg.	60.780	54.920	55.940	41.200	33.330	22.480	21.000	25.580	37.650	53.900	63.780	70.070	45.018
flows	Low	31.890	25.810	28.520	13.940	12.210	8.861	9.527	8.162	12.510	27.560	24.090	27.970	29.991
(m ³ s ⁻¹)	High	135.100	121.000	127.900	75.730	53.050	47.580	38.700	45.140	71.360	94.030	121.700	165.100	58.238
Peak flow (m ³ s ⁻¹)		409.60	467.20	362.90	203.90	232.20	165.20	247.40	254.90	223.70	324.80	411.80	1078.00	1078.00
Runoff (mm)		189	139	158	111	93	61	58	71	101	150	172	195	1477
Rainfall (mm)		178	128	138	107	107	102	107	121	156	203	218	223	1788

Factors affecting flow regime: H
Station type: VA1982 runoff is 121% of previous mean
rainfall 117%**007002 Findhorn at Forres****1982**Measuring authority: HRPB
First year: 1958Grid reference: NJ 018583
Level stn. (m OD) 9.60Catchment area (sq km): 781.9
Max alt. (m OD): 941

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	34.980	17.530	26.140	17.660	19.580	3.983	4.452	18.230	18.370	36.480	33.800	38.110	22.278
(m ³ s ⁻¹)	Peak	292.80	143.20	111.80	82.34	90.34	13.11	45.63	193.70	215.10	219.40	227.80	203.70	282.80
Runoff (mm)		120	54	90	59	67	13	15	56	61	125	112	131	902
Rainfall (mm)		114	84	137	43	97	44	48	172	131	162	182	172	1388

Monthly and yearly statistics for previous record (Oct 1958 to Dec 1981)

Mean	Avg.	23.100	19.770	22.050	20.920	15.380	10.030	10.210	14.080	13.910	20.140	23.480	24.130	18.096
flows	Low	9.429	5.259	8.615	5.560	3.838	3.321	2.750	2.478	2.863	3.547	9.701	8.332	11.994
(m ³ s ⁻¹)	High	49.380	44.700	54.320	54.170	41.990	41.900	24.650	58.840	37.870	49.540	39.710	61.550	25.482
Peak flow (m ³ s ⁻¹)		381.10	537.70	410.00	173.50	294.30	430.20	469.10	2410.00	861.10	512.00	465.20	616.90	2410.00
Runoff (mm)		78	82	76	89	53	33	35	48	46	69	78	83	730
Rainfall (mm)		97	84	80	65	72	78	89	103	93	108	117	100	1088

Factors affecting flow regime: N
Station type: VA1982 runoff is 123% of previous mean
rainfall 128%**009002 Deveron at Muireisk****1982**Measuring authority: NERP
First year: 1980Grid reference: NJ 705498
Level stn. (m OD) 25.30Catchment area (sq km): 954.9
Max alt. (m OD): 775

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	39.080	16.050	15.340	11.400	11.000	5.001	4.188	5.952	8.556	38.700	19.070	24.280	18.388
(m ³ s ⁻¹)	Peak	121.80	41.34	45.79	55.91	60.67	6.23	11.78	42.32	61.88	254.70	80.54	89.87	264.70
Runoff (mm)		110	41	43	31	31	14	12	17	23	103	52	68	543
Rainfall (mm)		95	16	68	43	79	35	40	118	94	163	74	83	908

Monthly and yearly statistics for previous record (Oct 1980 to Dec 1981)

Mean	Avg.	25.520	20.280	19.960	16.980	13.800	8.253	8.020	11.420	10.820	17.540	21.860	24.150	16.608
flows	Low	5.728	5.378	6.735	7.460	5.373	3.935	2.738	2.578	2.907	2.708	7.375	5.184	8.890
(m ³ s ⁻¹)	High	45.260	38.800	37.190	37.990	48.250	21.770	18.950	38.380	36.540	49.480	43.210	46.390	22.792
Peak flow (m ³ s ⁻¹)		214.50	135.20	187.10	131.30	506.60	254.40	222.50	422.90	322.60	332.10	305.60	244.20	506.60
Runoff (mm)		72	52	56	46	39	22	22	32	29	49	59	68	546
Rainfall (mm)		83	57	66	62	69	62	78	91	78	93	99	84	922

Factors affecting flow regime: N
Station type: VA1982 runoff is 100% of previous mean
rainfall 98%**010002 Ugie at Inverugie****1982**Measuring authority: NERP
First year: 1971Grid reference: NK 101485
Level stn. (m OD) 8.50Catchment area (sq km): 325.0
Max alt. (m OD): 234

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	9.378	4.648	4.474	2.993	2.478	1.577	1.505	1.812	2.643	8.151	5.481	8.004	4.260
(m ³ s ⁻¹)	Peak	37.01	9.80	12.28	8.11	4.12	2.00	5.57	6.55	9.45	23.03	10.80	23.17	37.01
Runoff (mm)		77	35	37	24	20	13	12	15	21	51	44	66	414
Rainfall (mm)		78	19	52	38	57	13	35	95	89	108	71	86	738

Monthly and yearly statistics for previous record (Feb 1971 to Dec 1981)

Mean	Avg.	7.957	6.737	5.306	3.585	2.779	1.883	1.646	1.788	2.009	4.229	6.358	8.619	4.397
flows	Low	2.285	1.999	1.593	1.245	1.542	0.913	0.903	0.764	0.791	0.889	1.942	1.473	3.003
(m ³ s ⁻¹)	High	11.160	14.320	9.291	6.518	5.882	2.824	4.274	3.796	3.940	8.075	10.390	13.280	6.122
Peak flow (m ³ s ⁻¹)		61.04	83.56	67.86	30.50	27.50	7.40	23.79	17.91	38.80	87.72	44.77	77.00	87.72
Runoff (mm)		68	51	44	29	23	15	14	15	18	35	51	71	427
Rainfall (mm)		82	43	66	48	48	53	58	60	84	85	92	81	788

Factors affecting flow regime:
Station type: VA1982 runoff is 97% of previous mean
rainfall 93%

011001 Don at Parkhill**1982**Measuring authority: NERP
First year: 1969Grid reference: NJ 887141
Level stn. (m OD) 32.44Catchment area (sq km): 1273.0
Max alt. (m OD): 872**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	49 160	27 730	21 820	17 360	12 320	7 067	6 347	8 366	11 570	51 320	26 320	29 600	22 415
(m ³ s ⁻¹)	Peak	105.40	59.23	38.11	42.20	23.57	9.48	13.12	44.43	45.09	284.20	46.40	59.09	284.20
Runoff (mm)		103	53	46	35	26	14	13	18	24	108	54	62	566
Rainfall (mm)		97	28	69	39	60	28	29	103	106	195	76	70	900

Monthly and yearly statistics for previous record (Dec 1969 to Dec 1981)

Mean	Avg	31 030	29 330	27 420	24 220	18 520	11 270	10 480	12 450	10 720	20 140	20 650	29 640	20 295
flows	Low	9 453	6 846	6 587	9 317	9 558	6 773	4 335	3 346	4 194	3 631	7 018	7 951	10 622
(m ³ s ⁻¹)	High	46 270	52 550	48 180	47 220	33 850	20 130	21 340	42 320	18 160	60 580	35 260	57 440	27 663
Peak flow (m ³ s ⁻¹)		185.90	165.10	159.80	132.30	110.70	49.43	119.30	251.20	121.20	347.20	158.50	198.30	347.20
Runoff (mm)		65	56	58	49	35	23	22	26	22	42	42	82	603
Rainfall (mm)		101	60	70	63	64	57	73	73	70	83	85	82	881

Factors affecting flow regime:
Station type: VA1982 runoff is 110% of previous mean
rainfall 102%**013007 North Esk at Logie Mill****1982**Measuring authority: TRPB
First year: 1976Grid reference: NO 699640
Level stn. (m OD) 10.60Catchment area (sq km): 730.0
Max alt. (m OD): 939**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	48 590	26 080	28 520	11 860	6 358	3 683	3 419	4 300	18 180	80 410	39 230	27 750	24 865
(m ³ s ⁻¹)	Peak													
Runoff (mm)		178	86	105	42	23	13	13	16	65	295	139	102	1077
Rainfall (mm)														

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1981)

Mean	Avg	20 670	29 810	34 530	22 910	15 210	7 805	6 076	10 130	10 780	27 770	21 620	33 860	20 073
flows	Low	13 770	9 795	22 030	9 071	6 179	5 579	3 718	2 548	4 748	5 691	17 700	20 790	16 314
(m ³ s ⁻¹)	High	28 700	45 670	42 750	32 180	23 450	8 731	9 362	24 250	21 660	61 640	32 140	59 880	23 088
Peak flow (m ³ s ⁻¹)		76	100	127	81	56	28	22	37	38	102	77	124	868
Runoff (mm)														
Rainfall (mm)														

Factors affecting flow regime: NS P I
Station type: CC

1982 runoff is 124% of previous mean

014001 Eden at Kemback**1982**Measuring authority: TRPB
First year: 1967Grid reference: NO 415158
Level stn. (m OD) 6.20Catchment area (sq km): 307.4
Max alt. (m OD): 522**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	10 890	4 328	6 745	2 748	1 874	1 480	1 133	0 981	1 399	5 341	8 962	9 840	4 643
(m ³ s ⁻¹)	Peak	59.05	6.98	17.44	6.95	3.32	2.95	2.15	1.34	3.35	28.59	31.93	30.43	69.05
Runoff (mm)		95	34	59	23	16	12	10	9	12	47	76	86	478
Rainfall (mm)		89	47	79	26	42	61	36	54	103	138	114	108	897

Monthly and yearly statistics for previous record (Oct 1967 to Dec 1981)

Mean	Avg	6 119	6 650	4 775	3 362	3 014	1 930	1 396	1 619	1 609	2 842	4 244	5 159	3 537
flows	Low	2 546	2 170	1 408	1 199	1 406	1 077	0 914	0 799	0 749	0 833	0 830	1 731	1 446
(m ³ s ⁻¹)	High	9 578	19 460	8 096	6 480	8 335	3 807	2 028	2 983	3 165	6 880	8 500	10 730	6 176
Peak flow (m ³ s ⁻¹)		43.03	71.31	38.34	28.27	47.48	11.55	8.00	15.53	29.73	35.97	39.37	43.27	71.31
Runoff (mm)		53	53	42	28	26	16	12	13	14	25	36	45	363
Rainfall (mm)		78	61	58	41	68	49	59	57	68	72	73	68	762

Factors affecting flow regime: NS GEI
Station type: VA1982 runoff is 132% of previous mean
rainfall 119%**016003 Ruchill Water at Cultybraggan****1982**Measuring authority: TRPB
First year: 1970Grid reference: NN 764204
Level stn. (m OD) 62.29Catchment area (sq km): 99.5
Max alt. (m OD): 985**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	10 900	9 995	9 738	2 046	1 900	1 096	0 597	1 837	9 077	10 820	11 340	9 922	6 606
(m ³ s ⁻¹)	Peak	56.43	56.94	96.66	14.82	16.62	7.85	2.91	29.65	92.12	95.00	101.70	141.20	141.20
Runoff (mm)		294	243	262	53	51	29	16	49	236	291	295	267	2087
Rainfall (mm)		180	227	267	47	113	93	28	156	303	281	311	307	2293

Monthly and yearly statistics for previous record (Oct 1970 to Dec 1981)

Mean	Avg	7 061	5 772	5 981	2 659	2 620	1 802	1 742	2 072	4 408	4 953	7 439	6 289	4 393
flows	Low	3 442	3 283	1 802	0 758	0 304	0 402	0 512	0 359	0 345	0 789	3 827	1 630	3 281
(m ³ s ⁻¹)	High	14 770	7 938	11 100	4 690	7 075	4 069	2 800	4 512	10 260	10 230	11 360	11 660	6 102
Peak flow (m ³ s ⁻¹)		250.40	130.20	165.30	61.27	165.00	221.30	160.00	85.89	227.30	123.00	183.30	136.30	260.40
Runoff (mm)		190	142	161	69	71	47	47	56	115	133	194	169	1394
Rainfall (mm)		228	161	167	85	116	100	124	121	192	182	250	212	1938

Factors affecting flow regime: N
Station type: VA1982 runoff is 150% of previous mean
rainfall 118%

016004 Earn at Forteviot Bridge**1982**

Measuring authority: TRPB

Grid reference: NO 043184

Catchment area (sq km): 782.2

First year: 1972

Level stn. (m OD): 7.84

Max alt. (m OD): 985

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	52.530	41.890	58.610	14.960	12.750	6.532	3.880	6.393	30.650	59.340	70.370	57.630	34.611
(m ³ s ⁻¹)	Peak	147.60	115.00	184.10	30.42	35.69	14.60	8.25	24.95	151.90	162.70	169.60	200.80	200.80
Runoff (mm)		180	129	201	50	44	22	13	22	102	203	233	197	1398
Rainfall (mm)		124	148	190	38	89	69	29	152	223	224	221	206	1711

Monthly and yearly statistics for previous record (Oct 1972 to Dec 1981)

Mean	Avg.	41.870	38.910	34.900	18.130	12.420	9.323	7.271	8.328	18.900	25.280	39.530	39.970	24.337
flows	Low	25.000	16.070	12.310	8.389	4.908	4.095	4.089	3.665	6.938	5.984	15.120	15.060	15.508
(m ³ s ⁻¹)	High	85.510	58.640	55.640	28.960	26.630	16.450	11.050	16.530	36.700	54.740	62.930	64.550	28.512
Peak flow (m ³ s ⁻¹)		275.90	214.60	187.10	104.50	155.20	114.90	65.62	95.24	271.80	235.90	328.60	219.80	328.60
Runoff (mm)		143	115	120	60	43	31	25	29	63	87	131	137	982
Rainfall (mm)		155	108	135	51	77	70	90	88	153	127	170	150	1372

Factors affecting flow regime: P H

1982 runoff is 142% of previous mean
rainfall 125%

Station type: VA

017002 Leven at Leven**1982**

Measuring authority: FRPB

Grid reference: NO 369006

Catchment area (sq km): 424.0

First year: 1970

Level stn. (m OD): 4.05

Max alt. (m OD): 522

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	12.620	8.790	10.230	2.992	2.623	2.093	1.527	1.459	3.214	8.357	12.650	15.980	6.878
(m ³ s ⁻¹)	Peak	40.54	14.40	18.95	8.70	4.11	4.59	4.01	3.59	6.97	19.60	34.99	34.63	40.54
Runoff (mm)		80	50	65	18	17	13	10	9	20	53	77	101	512
Rainfall (mm)		90	48	68	28	52	76	41	81	119	130	126	122	999

Monthly and yearly statistics for previous record (Aug 1969 to Dec 1981)

Mean	Avg.	9.191	9.709	6.717	4.300	3.005	2.421	1.455	2.510	2.780	5.058	7.420	9.422	6.311
flows	Low	4.781	2.882	1.543	1.413	2.012	1.168	0.902	0.822	0.970	0.795	0.972	3.462	2.269
(m ³ s ⁻¹)	High	15.310	22.860	11.240	8.835	5.414	4.467	2.123	4.841	5.618	11.000	14.570	19.200	7.605
Peak flow (m ³ s ⁻¹)		34.99	128.00	36.54	26.41	12.60	12.31	5.34	24.71	25.39	40.00	39.76	62.69	128.00
Runoff (mm)		58	56	42	26	19	15	9	16	17	32	45	60	395
Rainfall (mm)		83	58	62	40	65	61	64	59	81	74	92	72	809

Factors affecting flow regime: R EI

1982 runoff is 129% of previous mean
rainfall 123%

Station type: VA

017005 Avon at Polmonthill**1982**

Measuring authority: FRPB

Grid reference: NS 952797

Catchment area (sq km): 195.3

First year: 1972

Level stn. (m OD): 4.27

Max alt. (m OD): 312

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	8.214	4.140	6.220	1.939	1.547	1.214	0.693	1.147	3.943	5.931	10.630	8.668	4.624
(m ³ s ⁻¹)	Peak	63.78	16.72	27.55	14.04	7.72	3.70	2.41	3.46	42.91	33.67	28.11	68.95	68.95
Runoff (mm)		113	51	85	26	21	16	10	16	52	81	141	119	731
Rainfall (mm)		115	56	108	35	71	77	38	103	126	122	167	140	1164

Monthly and yearly statistics for previous record (Oct 1971 to Dec 1981)

Mean	Avg.	5.803	4.437	4.286	2.452	1.573	1.301	0.774	1.000	2.391	3.635	5.839	5.558	3.248
flows	Low	3.566	2.347	1.665	0.962	0.739	0.649	0.667	0.541	0.619	0.670	1.370	2.300	2.060
(m ³ s ⁻¹)	High	10.610	8.321	8.493	4.945	2.481	2.884	1.089	1.988	5.578	8.100	9.495	10.120	4.301
Peak flow (m ³ s ⁻¹)		60.83	41.80	50.99	31.63	23.58	19.86	12.37	12.47	49.09	76.75	57.74	58.82	76.75
Runoff (mm)		80	55	59	33	22	17	11	14	32	50	77	76	625
Rainfall (mm)		98	59	71	44	63	58	64	61	87	89	101	94	889

Factors affecting flow regime: EI

1982 runoff is 139% of previous mean
rainfall 130%

Station type: VA

018003 Teith at Bridge of Teith**1982**

Measuring authority: FRPB

Grid reference: NN 725011

Catchment area (sq km): 518.0

First year: 1957

Level stn. (m OD): 14.70

Max alt. (m OD): 1165

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	33.130	37.940	53.070	10.650	10.350	5.548	5.858	10.840	30.400	37.700	56.600	42.180	27.855
(m ³ s ⁻¹)	Peak	98.09	93.83	159.70	37.18	37.62	13.73	10.42	31.45	118.30	100.90	116.00	147.90	169.70
Runoff (mm)		171	177	274	53	54	28	30	56	152	195	283	218	1692
Rainfall (mm)		182	216	283	62	114	97	33	190	311	261	306	288	2343

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981—Incomplete or missing months total 0.1 years)

Mean	Avg	32.720	25.940	25.100	14.300	14.770	10.760	8.980	10.150	19.100	25.550	32.790	28.160	20.754
flows	Low	14.360	12.880	6.813	5.612	4.017	3.953	4.371	3.659	3.635	5.897	14.890	11.790	15.094
(m ³ s ⁻¹)	High	72.430	41.340	60.190	25.030	33.160	21.520	15.900	18.460	37.940	66.410	58.090	62.450	28.491
Peak flow (m ³ s ⁻¹)		246.50	207.40	176.00	89.21	158.00	161.70	74.22	88.35	184.10	210.90	245.10	241.10	246.50
Runoff (mm)		169	122	130	72	76	54	46	52	96	132	164	151	1264
Rainfall (mm)		230	141	136	88	137	119	111	108	186	200	204	188	1848

Factors affecting flow regime: S P

1982 runoff is 134% of previous mean
rainfall 127%

Station type: VA

018005 Allan Water at Bridge of Allan**1982**Measuring authority: FRPB
First year: 1972Grid reference: NS 786980
Level stn. (m OD): 11.20Catchment area (sq km): 210.0
Max alt. (m OD): 633**Hydrometric statistics for 1982 -**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	12 320	6 924	13 310	2 924	2 859	1 495	0 989	2 716	9 218	9 855	13 720	12 960	7 441
	Peak	56 37	34 27	58 47	17 16	21 85	5 64	1 51	18 20	64 68	52 74	37 66	68 70	68 70
Runoff (mm)		157	80	170	36	36	18	13	35	114	126	169	165	1119
Rainfall (mm)		90	102	161	37	87	69	24	134	188	158	194	193	1437

Monthly and yearly statistics for previous record (Jul 1971 to Dec 1981)

Mean	Avg	9 653	8 236	7 803	4 078	3 176	2 594	1 759	2 312	4 361	6 040	9 069	9 071	5 667
flows	Low	6 471	4 793	3 152	1 654	1 189	0 945	1 057	0 679	0 907	0 971	3 642	3 709	4 270
	High	16 410	12 960	12 370	6 618	6 827	5 423	2 320	5 921	9 113	10 810	13 560	14 060	6 887
Peak flow (m ³ s ⁻¹)		98 20	87 84	70 98	32 85	72 11	55 39	44 65	55 83	84 13	79 68	97 89	88 27	98 20
Runoff (mm)		123	96	100	50	41	32	22	29	64	77	112	116	852
Rainfall (mm)		145	89	92	49	86	76	81	62	120	109	124	124	1157

Factors affecting flow regime: N I
Station type: VA1982 runoff is 131% of previous mean
rainfall 124%**020001 Tyne at East Linton****1982**Measuring authority: FRPB
First year: 1961Grid reference: NT 591768
Level stn. (m OD): 16.50Catchment area (sq km): 307.0
Max alt. (m OD): 528**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	11 540	2 581	3 107	1 620	1 055	1 036	0 647	0 772	0 798	3 284	5 219	5 405	3 087
	Peak	93 02	8 80	12 20	2 82	1 57	3 59	3 18	2 78	2 76	31 62	63 04	35 77	93 02
Runoff (mm)		101	20	27	14	9	9	6	7	7	28	44	47	319
Rainfall (mm)		88	25	41	18	54	90	51	48	64	111	91	88	789

Monthly and yearly statistics for previous record (Jan 1961 to Dec 1981)

Mean	Avg	4 337	3 917	3 911	2 485	2 219	1 327	1 222	1 679	1 693	2 275	3 621	3 615	2 667
flows	Low	1 032	0 783	0 531	0 644	0 926	0 586	0 500	0 468	0 461	0 451	0 524	0 582	0 709
	High	9 778	8 624	8 789	6 158	7 733	3 861	4 393	9 855	6 711	7 000	11 210	8 405	4 146
Peak flow (m ³ s ⁻¹)		59 83	39 39	66 17	33 39	67 07	37 13	70 18	112 70	73 34	82 71	64 81	52 02	112 70
Runoff (mm)		38	31	34	21	19	11	11	16	14	20	31	32	276
Rainfall (mm)		62	43	53	43	56	51	60	80	70	70	73	50	711

Factors affecting flow regime:
Station type: VA1982 runoff is 115% of previous mean
rainfall 108%**021006 Tweed at Boleside****1982**Measuring authority: TWRP
First year: 1961Grid reference: NT 498334
Level stn. (m OD): 94.50Catchment area (sq km): 1500.0
Max alt. (m OD): 839**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	92 870	63 280	57 520	12 540	13 080	13 060	18 750	10 180	23 850	61 780	95 250	70 710	44 389
	Peak	678 60	280 80	219 10	25 10	55 63	60 60	141 20	39 65	121 40	264 00	364 00	518 10	678 60
Runoff (mm)		166	102	103	22	23	23	33	18	41	110	186	126	932
Rainfall (mm)		146	111	124	26	77	105	76	86	129	173	204	163	1420

Monthly and yearly statistics for previous record (Oct 1961 to Dec 1981)

Mean	Avg	51 830	42 880	42 970	29 420	24 450	16 220	13 480	20 350	30 100	40 000	49 470	49 920	34 226
flows	Low	14 300	10 480	14 930	9 898	7 605	7 413	6 900	5 012	4 572	4 435	14 400	22 450	16 678
	High	110 700	70 010	101 000	57 330	64 330	32 820	31 960	44 750	63 090	96 720	119 800	86 540	43 314
Peak flow (m ³ s ⁻¹)		606 00	483 90	470 10	248 90	182 80	126 00	342 60	444 30	385 10	1019 00	486 30	390 70	1019 00
Runoff (mm)		93	70	77	51	44	28	24	36	52	71	85	89	720
Rainfall (mm)		118	83	95	71	87	78	85	104	122	117	124	110	1192

Factors affecting flow regime: S P
Station type: VA1982 runoff is 129% of previous mean
rainfall 119%**021012 Teviot at Hawick****1982**Measuring authority: TWRP
First year: 1963Grid reference: NT 522159
Level stn. (m OD): 90.10Catchment area (sq km): 323.0
Max alt. (m OD): 608**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	19 390	15 660	17 150	2 484	3 664	2 403	4 370	2 218	5 336	16 340	21 950	20 650	10 966
	Peak	185 30	100 50	142 00	7 32	59 61	20 37	57 74	27 70	40 60	65 57	134 40	210 70	210 70
Runoff (mm)		161	117	142	20	30	19	36	18	43	135	176	171	1070
Rainfall (mm)		141	129	138	23	85	98	78	79	112	174	183	181	1421

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981)

Mean	Avg	12 410	10 160	9 346	5 770	5 544	4 170	2 861	4 101	6 327	9 592	12 340	12 230	7 696
flows	Low	6 981	4 234	2 991	2 189	1 319	1 099	0 964	0 992	0 915	0 816	2 627	4 522	4 183
	High	28 560	18 510	20 250	10 750	17 340	10 500	8 163	9 075	13 770	25 690	29 930	21 980	10 646
Peak flow (m ³ s ⁻¹)		185 90	228 60	124 10	88 03	98 31	81 84	99 33	178 60	185 60	273 40	188 60	195 50	273 40
Runoff (mm)		103	77	77	46	46	33	24	34	51	80	99	101	771
Rainfall (mm)		106	78	96	64	89	81	82	98	110	111	123	111	1147

Factors affecting flow regime: N
Station type: VA1982 runoff is 139% of previous mean
rainfall 124%

021018 Lyne Water at Lyne Station**1982**Measuring authority: TWRP
First year: 1968Grid reference: NT 209401
Level stn. (m OD) 168.00Catchment area (sq km): 175.0
Max alt. (m OD): 562

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	7.625	3.961	3.791	1.439	1.143	1.092	1.291	0.891	1.817	4.501	8.611	7.602	3.647
(m ³ s ⁻¹)	Peak	47.50	17.09	11.39	3.11	2.37	3.74	7.64	1.56	7.53	16.90	50.82	37.98	50.82
Runoff (mm)		117	55	58	21	18	16	20	14	27	69	128	116	658
Rainfall (mm)		113	67	85	29	59	84	57	84	104	132	169	130	1113

Monthly and yearly statistics for previous record (Oct 1968 to Dec 1981)

Mean	Avg	4.465	4.024	3.515	2.480	1.875	1.339	0.980	1.110	1.556	2.687	4.154	4.028	2.661
flows	Low	1.682	2.158	1.357	1.127	0.882	0.787	0.724	0.605	0.591	0.597	0.977	1.618	1.428
(m ³ s ⁻¹)	High	8.774	5.713	7.325	5.028	3.372	2.373	1.624	2.448	3.139	5.684	6.813	8.374	3.548
Peak flow (m ³ s ⁻¹)		24.68	28.83	27.65	21.46	17.36	15.58	11.90	11.63	18.68	40.49	36.35	30.56	40.49
Runoff (mm)		68	56	54	37	26	20	15	17	23	41	62	62	480
Rainfall (mm)		83	59	76	51	63	62	65	69	93	87	101	78	587

Factors affecting flow regime: S P
Station type: VA1982 runoff is 137% of previous mean
rainfall 125%**021022 Whiteadder Water at Hutton Castle****1982**Measuring authority: TWRP
First year: 1969Grid reference: NT 881550
Level stn. (m OD) 29.00Catchment area (sq km): 503.0
Max alt. (m OD): 533

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	25.990	6.853	5.519	2.879	2.113	2.909	2.153	1.356	2.291	9.579	11.330	12.480	7.121
(m ³ s ⁻¹)	Peak	265.90	16.62	14.08	7.91	3.73	22.15	11.96	2.28	12.68	37.40	98.60	49.76	265.90
Runoff (mm)		138	33	29	15	11	15	11	7	12	51	58	66	448
Rainfall (mm)		107	36	45	17	54	100	42	46	90	125	82	83	827

Monthly and yearly statistics for previous record (Sep 1969 to Dec 1981)

Mean	Avg	10.350	10.980	9.809	6.127	4.402	3.053	1.906	2.408	2.229	4.900	6.522	8.192	5.883
flows	Low	2.143	1.557	1.108	1.325	2.132	1.403	1.315	1.182	0.990	1.001	1.100	1.347	1.828
(m ³ s ⁻¹)	High	21.100	27.300	19.220	14.980	9.213	7.921	2.486	6.714	4.322	16.670	13.570	20.660	8.494
Peak flow (m ³ s ⁻¹)		177.30	160.90	133.90	54.80	82.30	64.13	25.70	79.00	43.20	190.00	186.00	108.10	190.00
Runoff (mm)		55	53	52	32	23	16	10	13	11	26	34	44	369
Rainfall (mm)		78	57	73	45	62	54	56	65	62	71	70	70	763

Factors affecting flow regime: S P
Station type: CC1982 runoff is 121% of previous mean
rainfall 108%**022006 Blyth at Hartford Bridge****1982**Measuring authority: NWA
First year: 1966Grid reference: NZ 243800
Level stn. (m OD) 24.60Catchment area (sq km): 269.4
Max alt. (m OD): 259

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	10.150	1.135	0.683	0.383	0.212	0.471	0.377	0.185	0.232	0.771	1.737	3.868	1.684
(m ³ s ⁻¹)	Peak	146.80	2.33	2.17	0.72	0.51	5.70	2.81	0.40	0.79	3.84	5.09	15.85	146.80
Runoff (mm)		101	10	7	4	2	5	4	2	2	8	17	38	198
Rainfall (mm)		97	17	36	16	30	102	42	71	48	76	49	68	652

Monthly and yearly statistics for previous record (Oct 1966 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg	4.294	4.016	4.103	1.797	1.445	0.617	0.387	0.563	0.728	1.839	2.495	3.746	2.184
flows	Low	0.587	0.398	0.245	0.359	0.325	0.177	0.108	0.067	0.107	0.111	0.182	0.274	0.637
(m ³ s ⁻¹)	High	9.425	7.997	11.090	2.956	4.948	1.871	1.242	2.543	2.695	9.680	5.673	12.500	3.410
Peak flow (m ³ s ⁻¹)		110.70	59.52	150.20	33.00	38.86	22.60	7.60	39.61	30.02	56.84	69.20	122.30	150.20
Runoff (mm)		43	36	41	17	14	6	4	6	7	18	24	37	264
Rainfall (mm)		62	49	64	40	60	51	56	66	65	63	65	62	703

Factors affecting flow regime: E
Station type: FV1982 runoff is 78% of previous mean
rainfall 93%**023001 Tyne at Bywell****1982**Measuring authority: NWA
First year: 1956Grid reference: NZ 038617
Level stn. (m OD) 14.00Catchment area (sq km): 2175.6
Max alt. (m OD): 893

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	150.800	44.970	49.250	11.110	11.400	18.150	11.760	22.040	24.180	64.070	75.280	93.930	48.078
(m ³ s ⁻¹)	Peak	1525.00	304.60	348.80	37.41	102.60	165.60	97.80	94.66	97.80	454.70	445.90	1020.00	1626.00
Runoff (mm)		186	50	61	13	14	22	14	27	29	79	90	116	700
Rainfall (mm)		153	56	90	20	56	96	48	99	67	129	127	145	1086

Monthly and yearly statistics for previous record (Oct 1956 to Dec 1981—incomplete or missing months total 0.2 years)

Mean	Avg	68.280	57.840	55.900	37.700	25.590	18.130	18.350	29.040	34.650	46.350	62.850	66.180	43.334
flows	Low	19.220	14.360	20.150	8.461	7.246	4.910	5.199	3.403	4.155	4.727	18.090	23.080	26.849
(m ³ s ⁻¹)	High	103.900	98.140	150.900	75.620	58.810	50.010	46.230	58.070	89.450	147.200	147.000	112.000	83.834
Peak flow (m ³ s ⁻¹)		1130.00	922.10	1472.00	852.30	476.30	440.30	758.90	1282.00	1189.00	1586.00	1382.00	1317.00	1686.00
Runoff (mm)		84	65	69	45	32	22	23	36	41	57	75	81	829
Rainfall (mm)		97	72	82	63	70	68	82	96	92	92	104	98	1016

Factors affecting flow regime: S
Station type: VA1982 runoff is 111% of previous mean
rainfall 107%

023007 Derwent at Rowlands Gill**1982**Measuring authority: NWA
First year: 1963Grid reference: NZ 168581
Level stn. (m OD) 29.30Catchment area (sq km) 242.1
Max alt. (m OD) 560**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	6 888	1 840	2 251	1 149	0 973	1 216	1 031	0 865	0 862	1 661	2 602	2 775	2 009
(m ³ s ⁻¹)	Peak	54 99	3 09	9 38	2 19	1 94	8 46	2 86	1 98	2 88	9 93	17 16	13 81	54 99
Runoff (mm)		76	18	25	12	11	13	11	10	9	18	28	31	263
Rainfall (mm)		92	21	66	18	43	94	44	56	58	111	102	85	790

Monthly and yearly statistics for previous record (Nov 1962 to Dec 1981—incomplete or missing months total 0.1 years)

Mean	Avg	3 564	3 951	5 084	3 137	2 273	1 591	1 406	1 685	1 824	2 223	3 215	3 307	2 766
flows	Low	1 148	0 911	0 749	1 258	1 050	0 844	0 796	0 656	0 676	0 791	0 903	0 882	1 119
(m ³ s ⁻¹)	High	7 320	10 490	13 570	6 561	5 051	3 348	4 087	4 667	7 264	8 971	11 780	7 828	5 573
Peak flow (m ³ s ⁻¹)		38 18	34 46	93 73	32 73	33 80	37 15	19 10	60 69	36 41	58 87	97 98	63 02	97 98
Runoff (mm)		39	40	56	34	25	17	16	9	20	25	34	37	361
Rainfall (mm)		79	64	76	58	64	62	62	84	75	66	87	75	852

Factors affecting flow regime: P
Station type: CC1982 runoff is 73% of previous mean
rainfall 93%**024004 Bedburn Beck at Bedburn****1982**Measuring authority: NWA
First year: 1959Grid reference: NZ 118322
Level stn. (m OD) 109.00Catchment area (sq km) 74.9
Max alt. (m OD) 531**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	4 341	0 860	1 215	0 440	0 271	0 650	0 386	0 241	0 325	1 471	2 358	2 190	1 229
(m ³ s ⁻¹)	Peak	34 67	2 19	4 35	1 15	1 06	8 35	2 28	1 49	4 50	11 80	13 68	15 89	34 67
Runoff (mm)		155	28	43	15	10	22	14	9	11	53	82	78	520
Rainfall (mm)		100	34	76	18	41	115	48	62	68	109	129	95	895

Monthly and yearly statistics for previous record (Oct 1959 to Dec 1981—incomplete or missing months total 0.2 years)

Mean	Avg	1 995	1 775	1 903	1 312	0 918	0 543	0 432	0 564	0 605	1 199	1 499	1 743	1 205
flows	Low	0 515	0 472	0 436	0 518	0 289	0 196	0 177	0 120	0 157	0 146	0 245	0 444	0 667
(m ³ s ⁻¹)	High	3 419	4 011	5 128	2 750	2 117	1 524	1 058	1 465	1 790	4 346	3 722	4 488	1 633
Peak flow (m ³ s ⁻¹)		23 82	21 59	38 51	35 09	20 62	21 66	21 92	22 99	32 30	38 06	34 26	42 93	42 93
Runoff (mm)		71	58	68	45	33	19	15	20	21	43	52	62	508
Rainfall (mm)		86	67	74	59	65	57	66	78	73	78	90	84	877

Factors affecting flow regime: N
Station type: CC1982 runoff is 102% of previous mean
rainfall 102%**024009 Wear at Chester le Street****1982**Measuring authority: NWA
First year: 1977Grid reference: NZ 283512
Level stn. (m OD) 5.50Catchment area (sq km) 1008.3
Max alt. (m OD) 747**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	40 980	10 210	15 010	5 488	4 625	6 894	4 356	3 722	3 816	12 660	26 410	24 740	13 243
(m ³ s ⁻¹)	Peak	309 80	33 87	61 35	8 98	18 66	51 02	11 72	7 95	11 94	123 50	182 90	182 00	309 80
Runoff (mm)		109	24	40	14	12	18	12	10	10	34	68	66	416
Rainfall (mm)		97	27	64	16	39	117	40	74	57	102	118	84	830

Monthly and yearly statistics for previous record (Sep 1977 to Dec 1981)

Mean	Avg	20 020	25 030	38 440	18 100	10 490	7 888	5 623	6 270	5 466	11 230	18 200	28 330	16 736
flows	Low	15 780	11 360	19 150	9 605	4 732	3 945	3 780	3 335	3 777	4 834	8 885	13 230	13 764
(m ³ s ⁻¹)	High	23 570	37 620	64 200	30 120	17 530	13 410	9 731	9 201	7 484	26 170	20 300	50 640	19 786
Peak flow (m ³ s ⁻¹)		175 70	212 70	349 60	106 20	100 70	131 10	82 95	59 19	92 94	273 40	192 80	353 10	353 10
Runoff (mm)		53	61	97	41	28	20	15	17	14	30	42	75	493
Rainfall (mm)		64	63	118	39	49	102	57	67	91	115	89	71	926

Factors affecting flow regime: G
Station type: FV1982 runoff is 84% of previous mean
rainfall 90%**025006 Greta at Rutherford Bridge****1982**Measuring authority: NWA
First year: 1960Grid reference: NZ 034122
Level stn. (m OD) 223.00Catchment area (sq km) 86.1
Max alt. (m OD) 596**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	6 112	1 719	3 946	0 375	0 562	1 933	0 473	0 839	1 360	2 744	6 524	5 473	2 672
(m ³ s ⁻¹)	Peak	118 00	17 06	46 74	2 51	30 28	36 34	17 06	11 01	38 02	27 58	61 65	73 77	118 00
Runoff (mm)		190	48	123	11	17	58	15	26	41	85	196	170	982
Rainfall (mm)		137	56	145	23	55	160	55	97	89	102	204	159	1282

Monthly and yearly statistics for previous record (Oct 1960 to Dec 1981)

Mean	Avg	3 591	2 689	3 271	2 175	1 352	0 846	0 688	1 304	1 575	2 494	3 280	3 444	2 225
flows	Low	0 291	0 280	0 842	0 424	0 148	0 130	0 095	0 098	0 147	0 195	0 951	0 944	1 447
(m ³ s ⁻¹)	High	7 155	6 881	8 926	4 682	3 951	2 502	2 013	4 107	4 067	6 665	6 878	6 406	2 926
Peak flow (m ³ s ⁻¹)		95 37	88 63	79 00	62 01	56 35	51 74	52 83	110 40	109 00	93 85	68 81	70 79	110 40
Runoff (mm)		112	78	102	65	42	25	21	41	47	78	99	107	816
Rainfall (mm)		114	87	98	79	78	70	74	95	97	102	111	114	1119

Factors affecting flow regime:
Station type: CC1982 runoff is 120% of previous mean
rainfall 115%

025018 Tees at Middleton in Teesdale**1982**Measuring authority: NWA
First year: 1971Grid reference: NY 950250
Level stn. (m OD) 211.20Catchment area (sq km): 242.1
Max alt. (m OD): 893

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.		1.821	12.260	3.367	4.442	5.489	3.907	5.683	5.163	8.859	19.480	17.030	
(m ³ s ⁻¹)	Peak			94.35	10.88	75.04	56.81	39.03	61.07	40.60	125.40	164.90	179.60	
Runoff (mm)			16	136	36	49	59	43	63	55	98	209	188	
Rainfall (mm)		197	76	170	32	94	125	58	159	108	150	287	200	1656

Monthly and yearly statistics for previous record (Jul 1971 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg.	12.570	10.120	11.540	7.723	5.479	5.030	4.540	5.630	6.537	8.271	10.970	12.320	8.391
flows	Low	7.078	4.484	3.955	2.619	2.307	3.286	3.119	3.091	2.987	4.499	5.740	3.805	6.092
(m ³ s ⁻¹)	High	19.420	16.530	23.880	17.810	10.700	10.420	5.918	10.440	9.590	15.020	15.020	24.100	10.632
Peak flow (m ³ s ⁻¹)		258.80	186.10	255.10	83.28	112.10	86.09	85.11	185.90	184.40	181.50	151.30	258.80	
Runoff (mm)		139	102	128	83	61	54	50	82	70	92	117	136	1094
Rainfall (mm)		172	108	141	84	90	94	89	106	133	130	173	168	1488

Factors affecting flow regime: SR
Station type: VA1982 runoff is % of previous mean
rainfall 111%**025019 Leven at Easby****1982**Measuring authority: NWA
First year: 1971Grid reference: NZ 585087
Level stn. (m OD) 101.30Catchment area (sq km): 14.8
Max alt. (m OD): 335

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	0.454	0.138	0.185	0.103	0.072	0.104	0.068	0.068	0.059	0.202	0.182	0.201	0.153
(m ³ s ⁻¹)	Peak	2.76	0.20	1.39	0.18	0.10	0.40	0.16	0.72	0.16	0.88	0.95	0.77	2.76
Runoff (mm)		82	23	33	18	13	18	12	12	10	38	32	36	327
Rainfall (mm)		68	17	75	15	22	114	23	81	53	107	82	58	716

Monthly and yearly statistics for previous record (May 1971 to Dec 1981)

Mean	Avg.	0.317	0.346	0.328	0.212	0.171	0.130	0.119	0.129	0.132	0.194	0.190	0.287	0.212
flows	Low	0.115	0.100	0.076	0.085	0.088	0.075	0.044	0.039	0.061	0.063	0.102	0.132	0.143
(m ³ s ⁻¹)	High	0.830	0.729	0.821	0.390	0.386	0.239	0.189	0.365	0.532	0.558	0.324	0.543	0.306
Peak flow (m ³ s ⁻¹)		3.14	4.38	4.90	2.41	4.00	1.87	3.14	3.88	12.83	3.08	3.15	4.51	12.83
Runoff (mm)		57	57	59	37	31	23	22	23	23	35	33	52	463
Rainfall (mm)		83	54	75	50	62	60	71	71	78	77	73	79	833

Factors affecting flow regime: N
Station type: FV1982 runoff is 72% of previous mean
rainfall 86%**025020 Skerne at Preston le Skerne****1982**Measuring authority: NWA
First year: 1972Grid reference: NZ 292238
Level stn. (m OD) 67.50Catchment area (sq km): 147.0
Max alt. (m OD): 222

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	2.862	0.805	0.383	0.247	0.199	0.519	0.218	0.218	0.189	0.284	1.055	1.065	0.654
(m ³ s ⁻¹)	Peak	20.08	0.83	0.73	0.44	0.81	3.32	0.92	1.61	0.39	0.52	6.92	8.17	20.08
Runoff (mm)		52	10	7	4	4	9	4	4	4	5	19	19	141
Rainfall (mm)		65	10	29	12	28	122	31	66	35	64	70	43	676

Monthly and yearly statistics for previous record (Dec 1972 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg.	1.441	1.438	1.623	0.746	0.679	0.447	0.415	0.407	0.362	1.078	0.784	1.588	0.917
flows	Low	0.553	0.481	0.293	0.311	0.348	0.112	0.123	0.086	0.082	0.099	0.204	0.553	0.568
(m ³ s ⁻¹)	High	3.376	2.731	4.824	1.619	1.853	0.685	0.760	0.732	0.745	4.290	1.612	4.658	1.610
Peak flow (m ³ s ⁻¹)		18.48	12.93	26.58	11.25	10.63	8.36	9.23	7.95	9.33	21.71	17.40	24.82	26.58
Runoff (mm)		26	24	30	13	12	8	7	6	6	20	14	29	197
Rainfall (mm)		60	42	61	38	54	50	50	57	66	60	52	63	653

Factors affecting flow regime: E
Station type: VA1982 runoff is 72% of previous mean
rainfall 88%**026003 Foston Beck at Foston Mill****1982**Measuring authority: YWA
First year: 1959Grid reference: TA 093548
Level stn. (m OD):Catchment area (sq km): 57.2
Max alt. (m OD): 164

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	0.966	0.974	0.875	0.771	0.610	0.526	0.443	0.328	0.256	0.229	0.240	0.385	0.546
(m ³ s ⁻¹)	Peak	1.24	1.11	1.17	0.89	0.77	1.08	0.61	0.38	0.30	0.31	0.33	0.60	1.24
Runoff (mm)		45	41	39	35	29	24	21	15	12	11	11	18	300
Rainfall (mm)		52	16	83	11	28	178	20	60	51	72	75	55	701

Monthly and yearly statistics for previous record (Oct 1959 to Dec 1981—incomplete or missing months total 0.6 years)

Mean	Avg.	0.905	1.185	1.129	1.008	0.832	0.843	0.514	0.405	0.339	0.333	0.454	0.642	0.698
flows	Low	0.199	0.183	0.174	0.150	0.174	0.110	0.112	0.105	0.101	0.125	0.148	0.195	0.166
(m ³ s ⁻¹)	High	2.274	2.332	2.242	2.070	1.708	1.231	0.882	0.875	0.567	0.612	1.845	2.379	1.282
Peak flow (m ³ s ⁻¹)		2.89	3.31	2.69	2.70	1.92	2.01	1.47	0.99	0.80	1.22	2.49	2.86	3.31
Runoff (mm)		42	51	53	46	39	29	24	19	15	16	21	30	384
Rainfall (mm)		72	53	55	51	54	49	59	66	58	69	75	75	736

Factors affecting flow regime: N
Station type: TP1982 runoff is 78% of previous mean
rainfall 95%

026004 Gypsy Race at Bridlington**1982**Measuring authority: YWA
First year: 1971Grid reference: TA 165675
Level stn. (m OD) 11.00Catchment area (sq km) 253.8
Max alt. (m OD) 211

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	0.442	0.408	0.334	0.334	0.185	0.100	0.117	0.062	0.065	0.024	0.004	0.014	0.174
(m ³ s ⁻¹)	Peak	0.58	0.49	0.43	0.40	0.29	0.83	0.38	0.11	0.11	0.13	0.02	0.12	0.83
Runoff (mm)		5	4	4	3	2	1	1	1	1	0	0	0	21
Rainfall (mm)		51	15	78	10	26	156	30	68	51	78	76	51	691

Monthly and yearly statistics for previous record (Jan 1971 to Dec 1981—Incomplete or missing months total 2.9 years)

Mean flows (m ³ s ⁻¹)	Avg.	0.192	0.480	0.923	0.847	0.496	0.295	0.144	0.080	0.030	0.016	0.020	0.102	0.301
Low	0	0	0.005	0.010	0	0	0	0	0	0	0	0	0	0.002
High	0.827	2.043	2.419	2.240	1.200	0.846	0.458	0.284	0.149	0.060	0.108	0.363	0.833	
Peak flow (m ³ s ⁻¹)	1.38	2.58	3.51	3.19	1.58	0.98	0.68	0.43	0.21	0.13	0.17	0.82	3.61	
Runoff (mm)	2	5	10	8	5	3	2	1	0	0	0	1	37	
Rainfall (mm)	77	51	64	47	55	50	54	64	60	71	59	77	729	

Factors affecting flow regime: G I
Station type: C1982 runoff is 57% of previous mean
rainfall 95%**027007 Ure at Westwick Lock****1982**Measuring authority: YWA
First year: 1958Grid reference: SE 356671
Level stn. (m OD) 14.19Catchment area (sq km) 914.6
Max alt. (m OD) 713

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	59.590	18.510	39.370	6.006	6.489	16.240	5.180	13.380	11.230	17.300	49.690	45.740	24.069
(m ³ s ⁻¹)	Peak	537.90	99.58	214.20	12.05	85.49	137.90	13.54	124.80	78.02	86.17	199.60	211.30	537.90
Runoff (mm)		175	49	115	17	19	48	16	39	32	51	141	134	832
Rainfall (mm)		112	55	145	19	54	173	30	121	79	87	199	151	1226

Monthly and yearly statistics for previous record (Oct 1968 to Dec 1981—Incomplete or missing months total 0.4 years)

Mean	Avg.	31 260	29 130	26 890	20 100	12 960	8 448	8 107	11 420	14 060	21 760	28 610	31 190	20 289
flows	Low	4 009	3 888	10 250	5 674	3 831	3 024	2 421	1 287	1 450	5 856	7 078	11 330	12 946
(m ³ s ⁻¹)	High	52 280	84 770	60 330	40 980	29 400	21 400	16 180	31 600	33 030	68 480	65 010	57 370	27 066
Peak flow (m ³ s ⁻¹)		246.90	307.30	413.10	263.30	170.80	161.50	144.50	260.20	298.20	268.50	288.80	283.20	413.10
Runoff (mm)		92	78	79	57	38	24	24	33	40	64	81	91	700
Rainfall (mm)		117	85	94	79	75	70	81	88	99	103	120	120	1131

Factors affecting flow regime: S P
Station type: B VA1982 runoff is 119% of previous mean
rainfall 108%**027031 Colne at Colnebridge****1982**Measuring authority: YWA
First year: 1964Grid reference: SE 174199
Level stn. (m OD) 47.95Catchment area (sq km) 245.0
Max alt. (m OD) 582

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	9.307	2.734	9.871	1.912	1.356	5.576	1.502	1.951	1.613	2.962	10.330	9.694	4.901
(m ³ s ⁻¹)	Peak	113.90	5.05	85.62	13.08	13.51	63.01	4.84	32.65	24.45	17.68	64.53	112.50	113.90
Runoff (mm)		102	27	108	20	15	59	16	21	17	32	109	108	633
Rainfall (mm)		68	37	160	44	49	202	10	144	88	78	195	144	1219

Monthly and yearly statistics for previous record (Jan 1964 to Dec 1981—Incomplete or missing months total 0.4 years)

Mean	Avg	6.347	7.091	6.607	4.678	2.991	2.011	1.981	2.279	3.085	4.346	6.424	7.312	4.683	
Flows	Low	2.132	1.873	2.730	1.278	0.843	0.677	0.598	0.369	0.807	0.694	1.321	2.410	2.483	
	(m ³ s ⁻¹)	High	11.510	16.720	17.800	12.180	7.024	4.572	6.420	5.799	13.780	10.750	10.500	21.410	6.676
Peak flow (m ³ s ⁻¹)		127.00	124.00	143.00	155.50	93.45	35.89	62.64	73.62	210.60	272.10	121.50	154.60	272.10	
Runoff (mm)		89	71	72	49	33	21	22	25	33	48	68	80	690	
Rainfall (mm)		105	94	102	79	81	73	79	91	105	105	130	123	1167	

Factors affecting flow regime: S PG I
Station type: C VA1982 runoff is 107% of previous mean
rainfall 104%**027042 Dove at Kirkby Mills****1982**Measuring authority: YWA
First year: 1972Grid reference: SE 705855
Level stn. (m OD) 35.60Catchment area (sq km) 51.8
Max alt. (m OD) 429

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	2.711	0.901	1.420	0.597	0.368	0.802	0.420	0.385	0.396	1.481	1.610	1.552	1.054
(m ³ s ⁻¹)	Peak	37.45	1.43	7.70	0.91	0.86	7.43	0.81	3.78	1.44	5.34	8.35	6.60	37.45
Runoff (mm)		140	42	73	30	19	40	22	20	20	77	81	80	644
Rainfall (mm)		96	24	97	16	34	158	24	104	69	115	108	88	931

Monthly and yearly statistics for previous record (Feb 1972 to Dec 1981)

Mean	Avg.	1.644	1.778	1.765	1.076	0.846	0.831	0.552	0.573	0.713	1.139	1.106	1.680	1.123	
Flows	Low	0.699	0.541	0.347	0.376	0.446	0.279	0.211	0.161	0.246	0.261	0.543	0.853	0.640	
	(m ³ s ⁻¹)	High	2.881	3.180	4.701	1.688	1.702	1.099	0.922	1.397	2.743	2.883	1.671	3.237	1.654
Peak flow (m ³ s ⁻¹)			23.63	36.68	40.93	5.00	15.44	6.94	19.33	32.36	58.38	24.71	23.85	32.94	68.38
Runoff (mm)			85	84	91	54	44	32	29	30	36	59	55	87	684
Rainfall (mm)			93	69	88	56	73	62	74	69	90	94	82	101	951

Factors affecting flow regime: N
Station type: FV1982 runoff is 94% of previous mean
rainfall 98%

027043 Wharfe at Addingham**1982**Measuring authority: YWA
First year: 1974Grid reference: SE 092494
Level stn. (m OD) 79.70Catchment area (sq km): 427.0
Max alt. (m OD): 704

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	28.830	10.260	22.710	3.075	3.692	9.551	2.845	11.820	7.978	12.560	29.330	29.490	14.345
(m ³ s ⁻¹)	Peak	413.30	62.13	210.70	8.33	62.69	114.70	11.91	175.60	75.30	82.63	129.30	201.10	413.30
Runoff (mm)		181	58	142	19	23	58	18	74	48	79	178	185	1063
Rainfall (mm)		128	62	158	27	69	154	30	167	93	99	208	200	1395

Monthly and yearly statistics for previous record (Jan 1974 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg.	25.320	18.200	23.820	8.977	7.592	4.582	4.660	7.769	14.720	18.920	24.680	23.400	16.220
Flows	Low	18.670	8.801	8.391	2.453	1.768	1.740	2.006	1.143	8.215	6.422	9.858	5.972	10.487
(m ³ s ⁻¹)	High	32.470	28.410	52.490	17.500	14.770	9.523	9.543	17.080	23.460	37.310	32.450	44.680	19.543
Peak flow (m ³ s ⁻¹)		509.00	342.00	552.60	205.10	89.87	60.62	163.60	111.20	244.90	370.00	400.00	320.30	552.60
Runoff (mm)		159	104	149	54	48	28	29	49	89	119	150	147	1125
Rainfall (mm)*		137	111	208	39	84	131	72	115	163	215	171	127	1553

Factors affecting flow regime: S P
Station type: C VA1982 runoff is 95% of previous mean
rainfall 90%**027059 Laver at Ripon****1982**Measuring authority: YWA
First year: 1977Grid reference: SE 301710
Level stn. (m OD) 29.60Catchment area (sq km): 87.5
Max alt. (m OD): 406

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	2.883	0.659	2.006	0.453	0.272	1.264	0.312	0.256	0.229	0.603	2.400	2.293	1.134
(m ³ s ⁻¹)	Peak	23.50	2.19	20.55	0.73	0.88	16.75	0.81	2.19	1.77	6.89	15.01	17.05	23.50
Runoff (mm)		88	18	61	13	8	37	10	8	7	18	71	70	410
Rainfall (mm)		83	40	120	15	39	164	28	94	65	79	180	123	1010

Monthly and yearly statistics for previous record (Nov 1977 to Dec 1981—incomplete or missing months total 0.2 years)

Mean	Avg.	1.908	1.903	2.874	1.087	0.802	0.488	0.277	0.465	0.347	0.839	1.151	2.245	1.181
Flows	Low	1.519	1.457	1.332	0.626	0.322	0.283	0.189	0.225	0.253	0.167	0.442	0.848	1.111
(m ³ s ⁻¹)	High	2.540	2.289	3.850	1.520	1.233	0.694	0.480	0.841	0.462	1.508	1.930	3.786	1.126
Peak flow (m ³ s ⁻¹)		17.74	15.78	22.85	8.38	8.28	15.67	6.29	11.48	10.21	13.64	12.91	39.14	39.14
Runoff (mm)		58	53	82	32	25	14	8	14	10	26	34	69	426
Rainfall (mm)*		85	91	132	39	49	94	49	84	89	132	92	77	1013

Factors affecting flow regime: S P
Station type: C1982 runoff is 96% of previous mean
rainfall 100%**028018 Dove at Marston on Dove****1982**Measuring authority: STWA
First year: 1962Grid reference: SK 235288
Level stn. (m OD) 47.20Catchment area (sq km): 883.2
Max alt. (m OD): 555

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	31.880	13.000	25.520	11.380	6.590	11.060	6.473	6.095	6.847	10.110	20.680	19.890	14.125
(m ³ s ⁻¹)	Peak	149.70	28.40	94.09		9.53	50.82	12.41	30.93	36.80	42.78	54.68	73.05	
Runoff (mm)		97	38	77	33	20	32	20	18	20	31	61	60	608
Rainfall (mm)		79	32	110	38	37	188	28	108	79	67	108	79	933

Monthly and yearly statistics for previous record (Oct 1961 to Dec 1981—incomplete or missing months total 0.5 years)

Mean	Avg.	22.670	21.620	17.920	14.030	12.810	9.323	8.622	8.424	9.325	11.390	16.790	21.860	14.637
Flows	Low	7.822	4.615	8.158	6.195	4.831	3.452	2.434	1.913	2.821	3.495	5.884	7.907	7.656
(m ³ s ⁻¹)	High	44.930	55.910	36.570	25.620	25.800	14.700	17.010	18.130	33.240	22.830	31.070	61.220	21.765
Peak flow (m ³ s ⁻¹)		157.90	194.60	129.70	100.30	109.00	71.64	117.10	101.10	112.10	128.00	130.80	202.80	202.80
Runoff (mm)		69	60	54	41	39	27	26	26	27	35	49	66	519
Rainfall (mm)		89	75	74	66	78	71	69	81	84	79	95	94	665

Factors affecting flow regime: SRPG
Station type: FV1982 runoff is 97% of previous mean
rainfall 98%**028031 Manifold at Ilam****1982**Measuring authority: STWA
First year: 1968Grid reference: SK 140507
Level stn. (m OD) 131.00Catchment area (sq km): 148.5
Max alt. (m OD): 513

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	8.522	3.163	8.390	2.393	1.180	2.982	1.545	1.103	1.837	2.853	6.497	5.247	3.643
(m ³ s ⁻¹)	Peak	59.25	10.80	36.82	6.31	1.85	21.73	3.89	2.01	23.72	18.90	28.57	29.23	69.25
Runoff (mm)		154	52	115	42	21	52	28	20	32	51	113	95	775
Rainfall (mm)		97	35	123	37	35	178	23	103	91	70	144	97	1033

Monthly and yearly statistics for previous record (May 1968 to Dec 1981—incomplete or missing months total 0.1 years)

Mean	Avg.	5.988	5.615	4.824	3.493	2.602	1.714	1.550	1.834	1.804	3.027	5.021	5.088	3.637
Flows	Low	3.657	2.935	2.528	1.277	0.812	0.745	0.493	0.386	0.535	0.718	1.555	2.135	2.241
(m ³ s ⁻¹)	High	7.828	12.710	9.455	5.828	5.713	3.443	3.481	4.517	4.147	6.697	8.198	8.741	4.806
Peak flow (m ³ s ⁻¹)		54.95	54.82	49.89	43.09	49.48	22.61	37.29	137.00	45.69	75.78	91.61	43.42	137.00
Runoff (mm)		108	92	87	61	47	30	28	33	31	55	88	92	762
Rainfall (mm)*		125	97	98	85	80	73	77	88	92	97	118	109	1097

Factors affecting flow regime: P E
Station type: C1982 runoff is 103% of previous mean
rainfall 94%

028039 Rea at Calthorpe Park**1982**Measuring authority: STWA
First year: 1967Grid reference: SP 071847
Level stn. (m OD) 104.24Catchment area (sq km) 74.0
Max alt. (m OD) 286**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1 146	0 621	1 771	0 534	0 417	1 027	0 890	0 897	0 791	0 747	1 182	0 997	0 918
(m ³ s ⁻¹)	Peak	12 85	5 24	28 64	3 48	8 37	4 48	46 88	39 76	27 21	4 94	14 33	15 06	46 86
Runoff (mm)		41	20	64	19	15	36	32	28	27	41	36	393	
Rainfall (mm)		58	38	113	22	27	127	64	104	79	69	91	66	858

Monthly and yearly statistics for previous record (May 1967 to Dec 1981—incomplete or missing months total 1.1 years)

Mean	Avg	1 202	1 216	1 120	0 721	0 787	0 646	0 491	0 630	0 667	0 660	0 809	1 123	0 838
Flows	Low	0 601	0 549	0 483	0 316	0 355	0 287	0 258	0 367	0 295	0 320	0 493	0 530	0 602
(m ³ s ⁻¹)	High	1 834	2 610	2 101	0 986	1 780	1 324	0 779	1 366	1 423	1 408	1 487	1 934	1 058
Peak flow (m ³ s ⁻¹)		20 73	27 44	27 85	12 97	30 37	37 44	22 85	41 25	40 85	23 28	24 97	54 02	64 02
Runoff (mm)		43	40	41	25	28	23	18	23	23	24	28	41	357
Rainfall (mm)		77	72	71	47	62	58	45	65	80	61	61	84	783

Factors affecting flow regime: E
Station type: C1982 runoff is 110% of previous mean
rainfall 110%**028072 Greet at Southwell****1982**Measuring authority: STWA
First year: 1974Grid reference: SK 711541
Level stn. (m OD) 20.40Catchment area (sq km) 46.2
Max alt. (m OD)**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0 504	0 283	0 696	0 301	0 190	0 263	0 152	0 185	0 182	0 178	0 297	0 460	0 306
(m ³ s ⁻¹)	Peak	2 74	0 83	3 58	0 46	0 45	1 90	0 22	1 72	0 47	0 36	0 79	2 88	3 56
Runoff (mm)		29	15	40	17	11	15	9	11	9	10	17	27	209
Rainfall (mm)		36	23	86	18	32	144	6	84	58	54	73	53	667

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1981—incomplete or missing months total 3.0 years)

Mean	Avg	0 446	1 012	0 521	0 481	0 272	0 224	0 138	0 129	0 144	0 195	0 183	0 299	0 333
Flows	Low	0 232	0 153	0 141	0 132	0 118	0 088	0 068	0 061	0 103	0 153	0 175	0 244	0 153
(m ³ s ⁻¹)	High	0 759	2 358	0 880	0 965	0 434	0 342	0 192	0 188	0 217	0 194	0 330	0 448	
Peak flow (m ³ s ⁻¹)		3 41	22 27	3 19	19 62	0 97	2 45	0 69	1 38	0 90	1 04	1 13	5 99	22 27
Runoff (mm)		28	53	30	27	16	13	8	7	8	11	10	17	227
Rainfall (mm)		59	72	62	42	46	56	30	53	54	63	45	80	662

Factors affecting flow regime:
Station type: FV1982 runoff is 92% of previous mean
rainfall 101%**028080 Tame at Lea Marston Lakes****1982**Measuring authority: STWA
First year: 1981Grid reference: SP 207937
Level stn. (m OD) 66.23Catchment area (sq km) 799.0
Max alt. (m OD)**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	20 900	12 780	23 870	10 930	9 129	15 420	11 840	12 050	11 840	12 510	18 220	16 670	14 663
(m ³ s ⁻¹)	Peak	67 90	39 70	86 27	35 06	22 45	61 09	94 78	94 43	69 90	37 77	67 57	84 24	94 78
Runoff (mm)		70	39	80	35	31	50	39	40	38	42	59	56	680
Rainfall (mm)														

Monthly and yearly statistics for previous record (Oct 1967 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg	17 210	17 530	15 570	13 220	12 530	10 880	10 180	10 820	11 310	12 090	13 870	16 550	13 462
Flows	Low	8 994	8 855	8 797	7 259	7 321	6 655	6 369	6 978	6 655	7 852	7 878	9 057	9 699
(m ³ s ⁻¹)	High	24 130	35 140	26 590	21 200	24 690	14 680	17 220	16 970	19 440	25 600	27 880	32 880	17 355
Peak flow (m ³ s ⁻¹)												39 41	219 20	
Runoff (mm)		58	54	52	43	42	35	34	36	37	41	45	55	632
Rainfall (mm)														

Factors affecting flow regime:
Station type:

1982 runoff is 109% of previous mean

029003 Lud at Louth**1982**Measuring authority: AWA
First year: 1968Grid reference: TF 337879
Level stn. (m OD) 15.42Catchment area (sq km) 55.2
Max alt. (m OD) 159**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0 624	0 489	0 639	0 571	0 385	0 377	0 291	0 247	0 214	0 228	0 402	0 522	0 416
(m ³ s ⁻¹)	Peak	1 66	0 60	1 65	0 81	0 53	2 05	0 39	2 60	1 33	0 45	1 75	1 82	2 60
Runoff (mm)		30	21	31	27	19	18	14	12	10	11	19	25	237
Rainfall (mm)		58	19	94	14	41	161	11	58	46	101	77	44	724

Monthly and yearly statistics for previous record (Aug 1968 to Dec 1981)

Mean	Avg	0 612	0 821	0 807	0 729	0 579	0 422	0 330	0 280	0 245	0 255	0 323	0 400	0 482
Flows	Low	0 139	0 157	0 162	0 150	0 156	0 131	0 112	0 102	0 112	0 130	0 132	0 125	0 178
(m ³ s ⁻¹)	High	1 279	1 428	1 338	1 289	1 177	0 687	0 507	0 414	0 625	0 719	1 158	0 912	0 703
Peak flow (m ³ s ⁻¹)		3 68	3 81	3 58	5 06	3 51	3 23	3 40	3 10	3 30	2 98	8 77	3 10	6 77
Runoff (mm)		30	36	39	34	28	20	16	14	11	17	15	19	275
Rainfall (mm)		65	51	63	56	49	53	52	64	54	54	69	87	697

Factors affecting flow regime: PG I
Station type: C1982 runoff is 86% of previous mean
rainfall 104%

030004 Partney Lymn at Partney Mill**1982**Measuring authority: AWA
First year: 1962Grid reference: TF 402676
Level stn. (m OD) 14.95Catchment area (sq km): 61.6
Max alt. (m OD): 142**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0.923	0.521	0.896	0.367	0.286	0.691	0.311	0.270	0.301	0.708	0.876	0.773	0.577
(m ³ s ⁻¹)	Peak	4.71	1.28	4.74	0.51	0.67	5.86	0.53	1.64	1.58	2.85	4.32	6.40	6.40
Runoff (mm)		40	20	39	15	12	29	14	12	13	31	37	34	296
Rainfall (mm)		43	24	80	10	54	156	11	80	50	100	68	45	721

Monthly and yearly statistics for previous record (Jun 1962 to Dec 1981—incomplete or missing months total 0.4 years)

Mean	Avg	0.786	0.799	0.738	0.625	0.448	0.302	0.278	0.284	0.285	0.376	0.538	0.725	0.614
flows	Low	0.351	0.300	0.276	0.228	0.200	0.116	0.088	0.107	0.151	0.190	0.193	0.210	0.292
(m ³ s ⁻¹)	High	1.475	1.838	1.538	1.518	0.798	0.619	0.862	0.593	0.917	1.144	1.112	1.804	0.764
Peak flow (m ³ s ⁻¹)		8.44	12.59	9.16	13.34	8.56	8.13	13.38	7.06	6.64	8.07	10.17	8.48	13.38
Runoff (mm)		34	32	32	26	19	13	12	12	16	23	32	32	263
Rainfall (mm)		58	51	60	57	53	56	53	65	55	49	71	65	693

Factors affecting flow regime: G I
Station type: C1982 runoff is 112% of previous mean
rainfall 104%**031002 Glen at Kates Bridge****1982**Measuring authority: AWA
First year: 1960Grid reference: TF 106149
Level stn. (m OD) 6.10Catchment area (sq km): 341.9
Max alt. (m OD): 129**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.625	1.026	2.561	1.182	0.572	1.440	0.624	0.443	0.295	0.636	1.336	1.801	1.128
(m ³ s ⁻¹)	Peak	12.15	1.38	13.56	1.67	3.66	16.30	1.32	1.19	0.80	2.45	9.13	14.40	16.30
Runoff (mm)		13	7	20	9	4	11	5	3	2	5	10	14	104
Rainfall (mm)		30	22	75	17	42	161	19	79	53	64	59	43	664

Monthly and yearly statistics for previous record (Oct 1960 to Dec 1981)

Mean	Avg	1.425	1.818	1.846	1.395	1.097	0.531	0.363	0.353	0.329	0.418	0.688	1.093	0.942
flows	Low	0.094	0.048	0.032	0.018	0.006	0.004	0	0.001	0.008	0.024	0.018	0.075	0.135
(m ³ s ⁻¹)	High	3.256	6.994	4.256	3.631	3.604	1.547	1.091	1.367	1.601	1.663	3.250	4.183	1.885
Peak flow (m ³ s ⁻¹)		15.89	17.05	28.50	23.30	15.14	11.15	5.74	14.16	5.24	5.08	25.98	15.18	28.50
Runoff (mm)		11	13	14	11	9	4	3	3	2	3	5	9	87
Rainfall (mm)		52	44	49	52	51	50	50	63	50	48	58	59	626

Factors affecting flow regime: G
Station type: FV1982 runoff is 120% of previous mean
rainfall 106%**031007 Welland at Barrowden****1982**Measuring authority: AWA
First year: 1967Grid reference: SP 948999
Level stn. (m OD) 34.90Catchment area (sq km): 398.9
Max alt. (m OD): 228**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	7.479	2.288	8.373	1.454	0.707	1.914	0.860	1.034	0.714	1.936	4.004	4.749	2.959
(m ³ s ⁻¹)	Peak	36.93	3.84	38.84	2.18	1.18	10.98	7.44	7.44	2.20	5.61	12.36	24.47	38.84
Runoff (mm)		50	14	56	9	5	12	6	7	5	13	26	32	235
Rainfall (mm)		39	28	91	16	30	142	24	81	64	66	64	43	688

Monthly and yearly statistics for previous record (Feb 1968 to Dec 1981—incomplete or missing months total 0.6 years)

Mean	Avg	4.379	5.675	4.461	2.571	1.830	0.991	0.873	0.852	0.723	1.316	1.827	3.526	2.404
flows	Low	0.517	0.425	0.353	0.257	0.232	0.159	0.092	0.153	0.271	0.229	0.317	0.411	1.037
(m ³ s ⁻¹)	High	8.949	17.030	9.687	7.899	6.030	3.095	4.468	4.501	4.329	5.150	6.430	6.528	3.686
Peak flow (m ³ s ⁻¹)		21.39	74.42	107.80	79.43	37.55	27.44	38.23	39.91	12.55	22.87	50.37	40.13	107.80
Runoff (mm)		29	35	30	17	12	6	6	8	5	9	12	24	190
Rainfall (mm)		57	48	53	48	54	55	53	68	50	46	56	60	646

Factors affecting flow regime: S E
Station type: C1982 runoff is 124% of previous mean
rainfall 107%**031010 Chater at Fosters Bridge****1982**Measuring authority: AWA
First year: 1968Grid reference: SK 961030
Level stn. (m OD) 38.40Catchment area (sq km): 68.9
Max alt. (m OD): 230**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.216	0.539	1.393	0.321	0.198	0.717	0.204	0.190	0.178	0.473	0.751	0.859	0.688
(m ³ s ⁻¹)	Peak	9.93	0.81	10.27	0.48	0.33	7.31	1.86	1.72	0.93	1.40	2.40	7.49	10.27
Runoff (mm)		47	19	54	12	8	27	8	7	7	18	28	33	269
Rainfall (mm)		39	31	84	15	34	159	40	74	61	72	65	44	728

Monthly and yearly statistics for previous record (Feb 1968 to Dec 1981)

Mean	Avg	0.933	1.056	0.899	0.682	0.464	0.281	0.212	0.204	0.193	0.330	0.430	0.734	0.631
flows	Low	0.147	0.106	0.090	0.065	0.051	0.033	0.024	0.044	0.067	0.048	0.073	0.098	0.202
(m ³ s ⁻¹)	High	1.882	3.094	1.677	1.670	1.467	0.649	0.872	0.818	0.998	1.018	1.215	1.465	0.828
Peak flow (m ³ s ⁻¹)		12.22	16.06	15.77	15.07	16.44	11.78	20.64	20.76	4.25	8.66	12.48	11.00	20.76
Runoff (mm)		36	37	35	26	18	10	8	8	7	13	16	29	243
Rainfall (mm)		58	49	54	49	53	56	51	70	51	47	57	59	664

Factors affecting flow regime:
Station type: CC1982 runoff is 111% of previous mean
rainfall 111%

032003 Harpers Brook at Old Mill Bridge**1982**Measuring authority: AWA
First year: 1938Grid reference: SP 983799
Level stn. (m OD) 30.30Catchment area (sq km): 74.3
Max alt. (m OD) 146**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.115	0.397	1.412	0.225	0.146	0.300	0.139	0.213	0.121	0.340	0.686	0.836	0.484
(m ³ s ⁻¹):	Peak	8.93	1.16	14.70	0.35	0.51	4.57	2.10	5.16	0.48	2.29	8.87	12.54	14.70
Runoff (mm)		40	13	51	8	5	10	5	8	4	12	24	30	211
Rainfall (mm)		46	29	93	12	33	144	24	73	52	69	65	48	688

Monthly and yearly statistics for previous record (Dec 1938 to Dec 1981—incomplete or missing months total 0.4 years)

Mean	Avg	0.780	0.839	0.719	0.464	0.308	0.212	0.147	0.156	0.148	0.204	0.429	0.573	0.413
Flows	Low	0.097	0.080	0.076	0.065	0.056	0.048	0.053	0.048	0.049	0.057	0.069	0.077	0.169
(m ³ s ⁻¹):	High	2.766	2.496	2.363	1.334	1.215	1.050	0.685	0.791	1.162	0.980	1.688	1.775	0.692
Peak flow (m ³ s ⁻¹)		16.06	16.58	17.01	22.00	17.39	17.50	12.49	20.50	6.80	7.73	11.74	15.81	22.00
Runoff (mm)		28	28	26	16	11	7	5	6	5	7	15	21	175
Rainfall (mm)		58	43	48	43	51	50	53	64	50	52	61	57	630

Factors affecting flow regime:
Station type: CC1982 runoff is 120% of previous mean
rainfall 109%**032004 Ise Brook at Harrowden Old Mill****1982**Measuring authority: AWA
First year: 1943Grid reference: SP 898715
Level stn. (m OD) 45.31Catchment area (sq km): 194.0
Max alt. (m OD) 197**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	3.437	1.460	3.975	0.981	0.549	1.078	0.479	0.471	0.387	0.867	1.718	2.458	1.488
(m ³ s ⁻¹):	Peak	12.64	2.89	14.94	1.75	4.14	5.68	1.87	3.93	2.29	2.73	6.39	11.12	14.84
Runoff (mm)		47	18	55	13	8	14	7	7	5	12	23	34	243
Rainfall (mm)		49	31	97	15	34	141	18	70	52	70	68	52	688

Monthly and yearly statistics for previous record (Dec 1943 to Dec 1981—incomplete or missing months total 1.4 years)

Mean	Avg	2.457	2.723	2.346	1.519	1.131	0.741	0.589	0.561	0.516	0.754	1.397	1.946	1.384
Flows	Low	0.459	0.324	0.219	0.329	0.143	0.128	0.166	0.110	0.128	0.185	0.176	0.219	0.422
(m ³ s ⁻¹):	High	6.441	6.949	7.984	3.834	3.640	2.421	3.018	2.855	2.283	4.384	5.331	5.859	2.337
Peak flow (m ³ s ⁻¹)		17.10	17.51	28.39	20.77	17.73	24.04	19.54	25.10	7.79	13.08	16.00	16.99	28.39
Runoff (mm)		34	34	32	20	16	10	8	7	10	19	19	27	226
Rainfall (mm)		54	44	48	44	53	53	52	66	54	51	59	59	637

Factors affecting flow regime: S E
Station type: FV1982 runoff is 108% of previous mean
rainfall 110%**033003 Cam at Bottisham****1982**Measuring authority: AWA
First year: 1936Grid reference: TL 508657
Level stn. (m OD) 2.39Catchment area (sq km): 803.0
Max alt. (m OD): 168**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	6.599	3.835	3.962	2.573	1.983	2.888	1.830	1.632	1.444	6.502	7.189	6.241	3.890
(m ³ s ⁻¹):	Peak													
Runoff (mm)		22	12	13	8	7	9	6	5	5	22	23	21	163
Rainfall (mm)		40	20	50	14	59	99	39	51	54	121	73	52	672

Monthly and yearly statistics for previous record (Oct 1936 to Dec 1981—incomplete or missing months total 1.8 years)

Mean	Avg	6.033	6.420	6.107	4.655	3.391	2.291	1.925	1.748	1.690	2.039	3.378	4.232	3.646
Flows	Low	1.058	1.441	1.298	1.422	0.944	0.517	0.621	0.471	0.784	0.803	0.880	1.235	1.370
(m ³ s ⁻¹):	High	19.210	16.410	19.610	18.430	8.775	5.400	8.419	5.471	6.698	5.423	12.120	12.070	8.279
Peak flow (m ³ s ⁻¹)		35.40	32.00	36.53	43.89	16.85	10.31	6.74	25.83	30.30	17.61	30.58	70.17	70.17
Runoff (mm)		20	19	20	15	11	7	6	6	5	7	11	14	143
Rainfall (mm)		51	37	43	39	46	46	54	58	50	52	59	51	686

Factors affecting flow regime: GEI
Station type: MIS1982 runoff is 107% of previous mean
rainfall 115%**033004 Lark at Isleham****1982**Measuring authority: AWA
First year: 1936Grid reference: TL 648760
Level stn. (m OD) 2.44Catchment area (sq km): 466.2
Max alt. (m OD): 125**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.709	1.655	1.855	1.424	1.204	1.008	0.891	0.812	0.629	2.235	2.687	2.987	1.668
(m ³ s ⁻¹):	Peak													
Runoff (mm)		16	9	11	8	7	6	4	5	4	13	15	17	112
Rainfall (mm)		41	19	48	11	68	95	25	59	52	127	76	51	672

Monthly and yearly statistics for previous record (Oct 1936 to Dec 1981—incomplete or missing months total 1.8 years)

Mean	Avg	2.585	2.898	3.049	2.423	1.889	1.338	1.162	0.992	0.905	1.043	1.565	1.911	1.808
Flows	Low	0.741	0.717	0.674	0.696	0.522	0.451	0.308	0.264	0.281	0.409	0.439	0.655	0.606
(m ³ s ⁻¹):	High	6.137	8.107	9.613	9.502	5.208	3.784	4.430	2.359	2.324	2.820	5.002	5.326	3.850
Peak flow (m ³ s ⁻¹)		5.95	4.70	3.06	2.01	1.59	0.96	1.27	1.13	2.07	4.05	2.12	2.49	5.95
Runoff (mm)		15	15	18	13	11	7	7	6	5	8	9	11	122
Rainfall (mm)		53	37	44	40	45	49	58	59	53	53	62	53	606

Factors affecting flow regime: GEI
Station type: MIS1982 runoff is 92% of previous mean
rainfall 111%

033012 Kym at Meagre Farm**1982**Measuring authority: AWA
First year: 1960Grid reference: TL 155631
Level stn. (m OD) 17.22Catchment area (sq km): 137.5
Max alt. (m OD): 101

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.854	0.514	1.708	0.165	0.082	1.218	0.101	0.043	0.055	1.104	1.628	1.857	0.861
(m ³ s ⁻¹)	Peak	11.95	1.52	16.30	0.33	0.52	17.66	0.43	0.11	0.12	14.30	12.70	16.50	17.66
Runoff (mm)		36	9	33	3	2	23	2	1	1	22	31	36	198
Rainfall (mm)		42	25	74	12	50	162	20	42	39	99	66	53	684

Monthly and yearly statistics for previous record (May 1960 to Dec 1981)—incomplete or missing months total 0.1 years

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	1.330	1.509	1.243	0.735	0.357	0.188	0.159	0.118	0.052	0.329	0.636	1.011	0.636
flows	Low	0.074	0.047	0.044	0.041	0.024	0.009	0.001	0.004	0.017	0.015	0.027	0.050	0.103
(m ³ s ⁻¹)	High	3.296	5.577	3.751	2.055	1.469	1.489	2.438	1.096	0.158	2.200	4.352	3.328	1.048
Peak flow (m ³ s ⁻¹)		25.26	22.70	30.24	30.75	20.61	24.10	16.68	23.42	1.34	25.91	34.71	33.98	34.71
Runoff (mm)		26	27	24	14	7	4	3	2	1	6	12	20	146
Rainfall (mm)		49	41	46	48	49	55	51	58	49	49	53	57	605

Factors affecting flow regime: EI
Station type: CB1982 runoff is 136% of previous mean
rainfall 113%**033013 Sapiston at Rectory Bridge****1982**Measuring authority: AWA
First year: 1960Grid reference: TL 896791
Level stn. (m OD) 15.62Catchment area (sq km): 205.9
Max alt. (m OD): 97

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.719	0.808	0.968	0.535	0.479	0.401	0.289	0.188	0.168	0.793	1.280	1.592	0.768
(m ³ s ⁻¹)	Peak	9.93	1.09	3.42	0.87	1.51	0.63	0.49	0.21	0.19	5.30	3.63	8.25	9.93
Runoff (mm)		22	10	13	7	6	5	4	2	2	10	16	21	118
Rainfall (mm)		40	19	45	10	63	98	25	41	40	124	69	49	623

Monthly and yearly statistics for previous record (May 1960 to Dec 1981)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	1.203	1.223	1.120	0.828	0.585	0.354	0.266	0.244	0.262	0.319	0.607	0.921	0.668
flows	Low	0.267	0.221	0.244	0.251	0.193	0.133	0.065	0.045	0.051	0.066	0.087	0.139	0.219
(m ³ s ⁻¹)	High	2.417	3.285	2.491	1.880	1.484	0.693	0.469	0.734	1.682	1.008	2.404	2.396	1.071
Peak flow (m ³ s ⁻¹)		7.51	10.90	10.85	8.78	7.31	1.72	2.39	2.93	8.95	6.26	8.97	10.45	10.90
Runoff (mm)		16	14	15	10	8	4	3	3	3	4	8	12	101
Rainfall (mm)		50	37	45	44	43	46	52	52	56	52	63	57	597

Factors affecting flow regime: GEI
Station type: TP1982 runoff is 117% of previous mean
rainfall 104%**033014 Lark at Temple****1982**Measuring authority: AWA
First year: 1960Grid reference: TL 758730
Level stn. (m OD) 8.95Catchment area (sq km): 272.0
Max alt. (m OD): 113

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.376	1.495	1.768	1.267	1.144	1.058	0.878	0.738	0.684	1.691	2.152	2.463	1.476
(m ³ s ⁻¹)	Peak	7.59	1.75	5.23	2.55	3.53	2.29	1.25	3.05	0.97	8.25	6.26	11.14	11.14
Runoff (mm)		23	13	17	12	11	10	9	7	7	17	21	24	171
Rainfall (mm)		42	20	49	10	66	96	28	51	48	128	75	53	664

Monthly and yearly statistics for previous record (Nov 1960 to Dec 1981)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	1.721	1.834	1.824	1.563	1.315	0.999	0.853	0.785	0.820	0.812	1.120	1.447	1.256
flows	Low	0.728	0.645	0.675	0.692	0.641	0.548	0.409	0.385	0.440	0.494	0.509	0.800	0.620
(m ³ s ⁻¹)	High	3.062	3.582	3.614	2.999	2.611	1.709	1.422	1.267	2.893	1.847	2.677	2.662	2.014
Peak flow (m ³ s ⁻¹)		10.33	12.05	12.12	10.31	9.26	4.14	3.31	5.24	22.06	5.34	10.12	11.22	22.06
Runoff (mm)		17	16	18	15	13	10	8	8	8	8	11	14	146
Rainfall (mm)		50	37	46	46	45	47	62	52	54	53	63	58	603

Factors affecting flow regime: GEI
Station type: CB1982 runoff is 118% of previous mean
rainfall 110%**033024 Cam at Dernford****1982**Measuring authority: AWA
First year: 1963Grid reference: TL 466506
Level stn. (m OD) 14.75Catchment area (sq km): 194.0
Max alt. (m OD): 137

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.791	1.229	1.273	0.944	0.806	0.692	0.591	0.503	0.441	1.229	1.696	2.105	1.108
(m ³ s ⁻¹)	Peak	5.75	1.61	2.09	1.11	1.63	1.32	1.75	0.82	0.72	9.10	7.77	12.06	12.06
Runoff (mm)		25	15	18	13	11	9	8	7	6	17	23	29	180
Rainfall (mm)		41	19	48	14	54	83	32	34	50	118	75	56	624

Monthly and yearly statistics for previous record (Mar 1949 to Dec 1981)—incomplete or missing months total 10.8 years

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	1.324	1.494	1.395	1.203	1.018	0.737	0.588	0.588	0.575	0.667	0.889	1.129	0.966
flows	Low	0.448	0.400	0.488	0.436	0.343	0.266	0.156	0.248	0.132	0.314	0.361	0.356	0.416
(m ³ s ⁻¹)	High	2.308	2.674	2.606	2.431	2.144	1.337	0.960	1.457	1.965	1.625	2.789	1.906	1.606
Peak flow (m ³ s ⁻¹)		9.66	14.09	10.22	9.94	13.83	3.40	3.60	4.79	10.99	6.12	12.50	11.55	14.09
Runoff (mm)		18	19	19	16	14	10	8	8	8	9	12	16	167
Rainfall (mm)		49	39	46	45	48	45	52	57	53	47	56	56	593

(1964-1981)

Factors affecting flow regime: GEI
Station type: TP1982 runoff is 115% of previous mean
rainfall 105%

033032 Heacham at Heacham**1982**Measuring authority: AWA
First year: 1965Grid reference: TF 685375
Level stn (m OD) 9.37Catchment area (sq km) 89.3
Max alt (m OD) 88**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0.174	0.187	0.201	0.206	0.184	0.160	0.127	0.106	0.090	0.100	0.146	0.265	0.162
(m ³ s ⁻¹)	Peak	0.24	0.21	0.29	0.26	0.28	0.31	0.15	0.14	0.13	0.18	0.23	0.45	0.46
Runoff (mm)		5	5	6	6	6	5	4	3	3	3	4	8	57
Rainfall (mm)		32	17	70	16	58	124	12	80	63	131	79	49	731

Monthly and yearly statistics for previous record (Nov 1965 to Dec 1981—incomplete or missing months total 0.2 years)

Mean	Avg	0.230	0.322	0.351	0.328	0.283	0.273	0.175	0.148	0.133	0.124	0.122	0.166	0.216
Flows	Low	0.064	0.067	0.071	0.072	0.076	0.080	0.043	0.034	0.033	0.047	0.050	0.058	0.063
(m ³ s ⁻¹)	High	0.435	0.671	0.871	0.776	0.636	0.400	0.284	0.256	0.371	0.399	0.319	0.305	0.331
Peak flow (m ³ s ⁻¹)		0.60	0.95	1.04	6.24	0.82	0.90	0.68	1.21	0.52	0.47	0.47	0.43	6.24
Runoff (mm)		7	9	11	10	8	6	5	4	4	4	4	5	78
Rainfall (mm)		57	47	51	51	57	55	62	64	55	52	75	67	693

Factors affecting flow regime: G I
Station type: C1982 runoff is 75% of previous mean
rainfall 105%**033034 Little Ouse at Abbey Heath****1982**Measuring authority: AWA
First year: 1968Grid reference: TL 851844
Level stn (m OD) 7.23Catchment area (sq km) 699.3
Max alt (m OD) 98**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	7.318	4.394	4.569	3.064	2.616	2.293	1.915	1.413	1.296	3.958	5.440	7.093	3.781
(m ³ s ⁻¹)	Peak	21.41	5.71	7.96	4.38	5.40	3.85	3.63	3.24	3.78	12.44	12.31	19.64	21.41
Runoff (mm)		28	15	18	11	10	9	7	5	5	15	20	27	171
Rainfall (mm)		36	18	48	10	66	94	24	46	53	123	69	51	638

Monthly and yearly statistics for previous record (Jun 1968 to Dec 1981—incomplete or missing months total 0.1 years)

Mean	Avg	5.978	6.866	6.187	5.015	4.009	2.670	2.118	1.966	1.606	2.268	3.217	4.475	3.848
Flows	Low	2.047	2.174	1.932	2.064	1.851	1.168	0.799	0.621	0.901	1.405	1.465	2.133	1.780
(m ³ s ⁻¹)	High	9.885	12.010	10.080	8.237	7.676	4.411	3.582	3.347	2.148	6.222	9.033	7.049	5.671
Peak flow (m ³ s ⁻¹)		20.50	23.81	23.85	23.52	18.30	6.95	7.03	7.62	4.85	12.23	19.41	21.37	23.85
Runoff (mm)		23	24	24	19	15	10	8	8	6	9	12	17	174
Rainfall (mm)		57	40	51	43	46	47	50	47	51	41	63	57	593

Factors affecting flow regime: GEI
Station type: C1982 runoff is 98% of previous mean
rainfall 108%**034001 Yare at Colney****1982**Measuring authority: AWA
First year: 1959Grid reference: TG 182082
Level stn (m OD) 8.18Catchment area (sq km) 231.8
Max alt (m OD) 69**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.513	1.320	1.633	0.801	0.721	0.743	0.581	0.407	0.551	2.898	2.551	2.829	1.462
(m ³ s ⁻¹)	Peak	7.38	1.92	2.44	1.08	1.99	1.86	1.28	0.51	1.16	7.37	5.41	7.67	7.67
Runoff (mm)		29	14	19	9	8	8	7	5	6	33	29	33	200
Rainfall (mm)		34	15	52	10	70	101	25	70	67	127	73	53	697

Monthly and yearly statistics for previous record (Oct 1959 to Dec 1981)

Mean	Avg	2.611	2.704	2.133	1.720	1.106	0.663	0.579	0.570	0.696	0.843	1.495	2.233	1.440
Flows	Low	0.779	0.947	0.842	0.623	0.462	0.285	0.189	0.200	0.272	0.330	0.440	0.714	0.770
(m ³ s ⁻¹)	High	5.181	4.931	4.783	3.442	2.487	1.267	1.041	1.607	3.420	2.190	3.971	5.905	2.230
Peak flow (m ³ s ⁻¹)		18.97	18.63	18.90	20.51	10.10	3.46	4.54	6.34	21.61	7.48	11.20	21.15	21.61
Runoff (mm)		30	28	25	19	13	7	7	7	6	10	17	26	186
Rainfall (mm)		57	45	46	49	45	47	57	58	55	57	70	66	652

Factors affecting flow regime: G I
Station type: MIS1982 runoff is 102% of previous mean
rainfall 107%**034018 Stiffkey at Warham All Saints****1982**Measuring authority: AWA
First year: 1972Grid reference: TF 944414
Level stn (m OD) 5.30Catchment area (sq km) 77.1
Max alt (m OD) 95**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0.581	0.459	0.539	0.380	0.302	0.302	0.211	0.170	0.207	0.633	0.712	0.731	0.436
(m ³ s ⁻¹)	Peak	0.88	0.56	1.02	0.49	0.80	0.78	0.31	0.21	0.44	2.25	1.77	1.91	2.25
Runoff (mm)		20	14	19	13	10	10	7	6	7	22	24	25	178
Rainfall (mm)		30	14	59	15	52	90	22	72	57	133	73	47	664

Monthly and yearly statistics for previous record (Jan 1978 to Dec 1981—incomplete or missing months total 0.4 years)

Mean	Avg	0.833	1.059	0.843	0.732	0.560	0.416	0.483	0.481	0.288	0.351	0.422	0.619	0.688
Flows	Low	0.572	0.454	0.353	0.286	0.227	0.125	0.059	0.083	0.206	0.245	0.285	0.430	0.335
(m ³ s ⁻¹)	High	1.310	2.186	1.228	1.416	0.912	0.617	1.216	0.984	0.339	0.471	0.606	0.864	0.716
Peak flow (m ³ s ⁻¹)		5.47	12.49	4.90	10.55	1.55	1.44	5.78	3.29	0.84	1.59	1.68	2.72	12.49
Runoff (mm)		29	34	29	25	19	14	17	17	10	12	14	22	241
Rainfall (mm)		70	56	65	47	47	46	51	73	47	56	58	74	690

Factors affecting flow regime: G I
Station type: FV1982 runoff is 74% of previous mean
rainfall 96%

035002 Deben at Naunton Hall**1982**Measuring authority: AWA
First year: 1964Grid reference: TM 322534
Level stn. (m OD) 5.49Catchment area (sq km): 163.1
Max alt. (m OD): 62

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.703	0.720	0.772	0.244	0.214	0.218	0.135	0.114	0.141	0.589	1.075	1.799	0.644
(m ³ s ⁻¹)	Peak	8.40	3.05	3.93	0.58	1.49	0.75	0.36	0.86	0.77	5.62	5.88	15.17	15.17
Runoff (mm)		28	11	13	4	4	3	2	2	10	17	30	126	
Rainfall (mm)		34	19	44	9	51	71	12	42	39	113	62	55	551

Monthly and yearly statistics for previous record (Aug 1964 to Dec 1981—incomplete or missing months total 0.6 years)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	1.743	1.623	1.148	0.712	0.397	0.186	0.170	0.172	0.354	0.396	0.951	1.323	0.781
Flows	Low	0.259	0.247	0.278	0.178	0.107	0.052	0.044	0.054	0.076	0.139	0.173	0.192	0.545
(m ³ s ⁻¹)	High	2.894	4.252	3.366	1.627	1.148	0.326	0.405	0.484	2.825	1.222	3.113	3.585	1.060
Peak flow (m ³ s ⁻¹)		17.78	16.71	14.80	16.10	12.80	1.50	3.39	2.61	29.45	8.24	16.86	16.11	29.45
Runoff (mm)		29	24	19	11	7	3	3	3	6	7	15	27	147
Rainfall (mm)		53	41	44	42	42	43	50	46	59	47	66	56	589

Factors affecting flow regime: R G I
Station type: CC1982 runoff is 85% of previous mean
rainfall 94%**037001 Roding at Redbridge****1982**Measuring authority: TWA
First year: 1950Grid reference: TQ 415884
Level stn. (m OD) 5.72Catchment area (sq km): 303.3
Max alt. (m OD): 117

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	5.593	2.103	3.003	1.148	0.946	1.631	0.761	0.515	0.683	6.205	4.774	6.182	2.795
(m ³ s ⁻¹)	Peak	14.50	4.24	6.86	5.04	8.57	17.80	5.77	3.88	8.98	35.60	18.40	35.60	35.60
Runoff (mm)		49	17	27	10	8	14	7	5	8	55	41	55	292
Rainfall (mm)		46	23	52	21	63	108	39	41	56	135	69	68	721

Monthly and yearly statistics for previous record (Feb 1950 to Dec 1981)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	3.634	3.617	2.815	1.749	1.219	0.787	0.593	0.612	0.902	1.187	2.118	2.878	1.834
Flows	Low	0.675	0.608	0.537	0.482	0.323	0.226	0.280	0.224	0.197	0.283	0.412	0.412	0.801
(m ³ s ⁻¹)	High	7.287	10.670	6.858	4.484	4.045	2.953	1.975	1.315	4.012	6.834	10.340	9.454	2.747
Peak flow (m ³ s ⁻¹)		34.74	30.80	38.08	27.72	32.70	21.70	24.50	19.81	25.62	30.52	62.41	38.40	62.41
Runoff (mm)		32	29	25	15	11	7	5	5	8	10	18	25	191
Rainfall (mm)		51	44	46	42	47	50	52	58	60	53	63	57	623

Factors affecting flow regime: S EI
Station type: EV1982 runoff is 153% of previous mean
rainfall 116%**037005 Colne at Lexden****1982**Measuring authority: AWA
First year: 1959Grid reference: TL 962261
Level stn. (m OD) 8.23Catchment area (sq km): 238.2
Max alt. (m OD): 114

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.883	1.142	1.229	0.721	0.560	0.457	0.445	0.506	0.490	1.391	2.380	3.293	1.291
(m ³ s ⁻¹)	Peak	13.18	1.81	3.24	1.27	1.91	1.14	0.62	1.13	0.72	9.77	8.95	20.32	20.32
Runoff (mm)		32	12	14	8	8	5	5	6	5	16	26	37	172
Rainfall (mm)		38	20	46	14	61	71	20	51	31	129	73	62	616

Monthly and yearly statistics for previous record (Oct 1959 to Dec 1981)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	1.920	1.855	1.765	1.135	0.773	0.424	0.337	0.317	0.380	0.640	1.136	1.502	1.012
Flows	Low	0.460	0.346	0.380	0.358	0.229	0.146	0.100	0.095	0.179	0.221	0.288	0.352	0.362
(m ³ s ⁻¹)	High	3.737	4.640	3.671	2.451	1.816	0.857	0.687	0.554	1.098	3.930	5.521	4.200	1.732
Peak flow (m ³ s ⁻¹)		13.92	22.02	23.80	13.34	12.56	4.74	4.00	2.38	10.50	7.89	20.34	20.58	23.80
Runoff (mm)		22	19	20	12	9	5	4	4	4	7	12	17	134
Rainfall (mm)		47	36	44	42	42	43	47	50	54	49	60	55	669

Factors affecting flow regime: EI
Station type: FL1982 runoff is 128% of previous mean
rainfall 108%**037008 Chelmer at Springfield****1982**Measuring authority: AWA
First year: 1965Grid reference: TL 713071
Level stn. (m OD) 23.10Catchment area (sq km): 190.3
Max alt. (m OD): 125

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.731	1.170	1.228	0.693	0.607	0.585	0.439	0.374	0.380	2.110	2.444	3.313	1.338
(m ³ s ⁻¹)	Peak	10.74	2.02	2.55	1.37	3.93	1.56	1.74	0.72	0.80	17.90	10.96	27.16	27.18
Runoff (mm)		38	15	17	9	9	8	6	5	5	30	33	47	222
Rainfall (mm)		45	22	57	18	63	89	33	43	44	129	72	68	678

Monthly and yearly statistics for previous record (Dec 1965 to Dec 1981)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	1.914	1.912	1.846	1.010	0.797	0.464	0.364	0.380	0.440	0.613	1.003	1.564	1.005
Flows	Low	0.395	0.406	0.376	0.378	0.310	0.200	0.183	0.178	0.291	0.264	0.302	0.387	0.348
(m ³ s ⁻¹)	High	3.378	3.891	3.067	1.964	1.972	0.810	0.507	0.705	1.264	2.152	4.536	4.006	1.347
Peak flow (m ³ s ⁻¹)		14.30	26.61	21.75	10.92	18.78	3.95	1.56	3.22	9.75	9.24	25.30	20.85	26.61
Runoff (mm)		27	24	23	14	11	6	5	5	6	9	14	22	167
Rainfall (mm)		50	40	47	39	47	46	44	52	53	45	62	57	582

Factors affecting flow regime: Et
Station type: EW1982 runoff is 133% of previous mean
rainfall 116%

037010 Blackwater at Appleford Bridge**1982**Measuring authority: AWA
First year: 1962Grid reference: TL 845158
Level stn. (m OD) 14.55Catchment area (sq km): 247.3
Max alt. (m OD): 127**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	3 058	1 264	1 418	0 912	0 709	0 609	0 456	0 415	0 411	1 647	2 435	3 581	1 410
(m ³ s ⁻¹):	Peak	12 00	3 29	3 58	2 30	2 77	1 80	0 82	0 90	0 78	10 00	8 61	21 60	21 80
Runoff (mm)		33	12	15	10	8	6	5	4	4	18	26	39	180
Rainfall (mm)		39	21	47	15	55	79	21	37	39	126	71	62	612

Monthly and yearly statistics for previous record (Oct 1962 to Dec 1981)

Mean	Avg	1 939	2 034	2 071	1 397	1 003	0 680	0 505	0 458	0 522	0 652	1 101	1 625	1 162
flows	Low	0 532	0 460	0 479	0 479	0 341	0 356	0 182	0 181	0 215	0 296	0 325	0 379	0 822
(m ³ s ⁻¹):	High	3 916	4 696	3 583	2 898	2 185	1 271	1 007	0 837	1 538	1 955	4 532	4 307	1 627
Peak flow (m ³ s ⁻¹)		14 10	19 00	21 71	11 19	17 80	5 74	2 63	3 28	11 44	8 39	19 60	19 00	21 71
Runoff (mm)		21	20	22	15	11	7	5	5	5	7	12	18	148
Rainfall (mm)		45	36	48	44	45	49	46	51	53	44	61	52	574

Factors affecting flow regime: EI
Station type: FL1982 runoff is 122% of previous mean
rainfall 107%**037014 Roding at High Ongar****1982**Measuring authority: TWA
First year: 1963Grid reference: TL 561040
Level stn. (m OD) 41.00Catchment area (sq km): 95.1
Max alt. (m OD): 113**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1 689	0 556	0 700	0 258	0 143	0 121	0 097	0 055	0 060	2 471	1 540	2 468	0 846
(m ³ s ⁻¹):	Peak	6 60	0 55	0 84	0 23	0 28	0 45	0 75	0 08	0 22	32 80	9 78	25 10	32 80
Runoff (mm)		48	14	20	7	4	3	3	2	2	70	42	70	283
Rainfall (mm)		45	24	54	24	59	94	41	40	56	133	73	69	712

Monthly and yearly statistics for previous record (Dec 1963 to Dec 1981)

Mean	Avg	1 118	1 057	0 905	0 448	0 336	0 111	0 049	0 069	0 165	0 231	0 545	0 810	0 484
flows	Low	0 081	0 077	0 066	0 065	0 034	0 015	0 002	0 004	0 013	0 029	0 044	0 085	0 071
(m ³ s ⁻¹):	High	1 980	2 598	1 982	0 973	1 471	0 291	0 075	0 297	1 320	1 983	4 637	2 745	0 928
Peak flow (m ³ s ⁻¹)		18 50	25 40	15 87	10 69	25 60	2 65	0 30	12 20	20 02	9 25	38 05	21 90	38 06
Runoff (mm)		31	27	25	12	9	3	1	2	4	6	15	23	161
Rainfall (mm)		50	39	50	45	47	49	46	55	53	47	64	56	601

Factors affecting flow regime: G
Station type: EV1982 runoff is 176% of previous mean
rainfall 118%**038021 Turkey Brook at Albany Park****1982**Measuring authority: TWA
First year: 1971Grid reference: TQ 359985
Level stn. (m OD) 16.60Catchment area (sq km): 42.2
Max alt. (m OD): 127**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0 537	0 181	0 357	0 084	0 065	0 240	0 050	0 073	0 036	0 524	0 563	0 704	0 286
(m ³ s ⁻¹):	Peak	3 72	1 14	3 01	1 58	1 49	6 95	2 38	2 76	0 56	7 65	6 47	8 65	8 66
Runoff (mm)		34	10	23	5	4	15	3	5	2	33	35	45	214
Rainfall (mm)		47	28	61	23	59	146	28	70	45	128	80	71	786

Monthly and yearly statistics for previous record (Sep 1971 to Dec 1981)

Mean	Avg	0 385	0 412	0 398	0 188	0 210	0 066	0 044	0 054	0 065	0 112	0 215	0 325	0 206
flows	Low	0 037	0 042	0 024	0 020	0 014	0 021	0 013	0 008	0 019	0 018	0 019	0 086	0 067
(m ³ s ⁻¹):	High	0 760	0 988	0 811	0 626	0 626	0 120	0 087	0 171	0 228	0 410	1 158	0 605	0 339
Peak flow (m ³ s ⁻¹)		10 51	8 74	5 14	6 59	20 69	5 17	2 12	2 38	7 55	5 65	12 75	10 51	20 69
Runoff (mm)		24	24	25	11	13	4	3	3	4	7	13	21	163
Rainfall (mm)		58	48	64	44	56	46	43	51	68	52	61	65	668

Factors affecting flow regime: G
Station type: FV1982 runoff is 139% of previous mean
rainfall 120%**039002 Thames at Days Weir****1982**Measuring authority: TWA
First year: 1938Grid reference: SU 568935
Level stn. (m OD) 46.02Catchment area (sq km): 3444.7
Max alt. (m OD): 330**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	81 970	44 080	76 730	29 820	12 920	10 580	8 124	4 248	4 796	15 220	42 900	66 380	32 981
(m ³ s ⁻¹):	Peak													
Runoff (mm)		84	31	80	22	10	8	5	3	4	12	32	52	302
Rainfall (mm)		54	39	97	28	27	94	33	52	72	88	86	69	737

Monthly and yearly statistics for previous record (Oct 1938 to Dec 1981)

Mean	Avg	54 920	58 010	47 060	30 610	20 460	14 390	8 868	7 413	9 130	15 690	31 760	45 010	28 449
flows	Low	8 250	5 554	5 620	4 253	2 855	1 502	0 399	0 296	1 741	2 778	4 040	5 312	10 095
(m ³ s ⁻¹):	High	133 600	120 800	163 200	85 070	41 930	41 560	48 820	18 890	38 630	74 570	128 100	128 700	51 292
Peak flow (m ³ s ⁻¹)														
Runoff (mm)		43	41	37	23	16	11	7	6	7	12	24	35	261
Rainfall (mm)		68	48	53	46	59	54	55	70	61	63	71	68	714

Factors affecting flow regime: P EI
Station type: MIS1982 runoff is 116% of previous mean
rainfall 103%

039011 Wey at Tilford**1982**Measuring authority: TWA
First year: 1954Grid reference: SU 874433
Level stn. (m OD) 48.20Catchment area (sq km): 396.3
Max alt. (m OD): 280

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	4.335	3.355	4.773	2.941	2.303	2.145	1.714	1.583	1.662	3.825	5.031	6.054	3.310
(m ³ s ⁻¹)	Peak	9.33	7.70	15.80	4.91	3.55	3.81	2.47	2.39	3.02	22.50	21.40	22.10	22.50
Runoff (mm)		29	20	32	19	16	14	12	11	11	26	33	41	284
Rainfall (mm)		46	44	95	23	55	88	31	53	74	167	135	109	920

Monthly and yearly statistics for previous record (Oct 1954 to Dec 1981)

Mean	Avg.	5.243	4.646	4.284	3.608	3.438	2.650	2.056	1.911	2.286	2.834	3.829	4.500	3.435
flows	Low	1.808	1.954	1.662	1.524	1.400	1.214	1.089	0.885	0.905	1.327	1.261	1.898	1.696
(m ³ s ⁻¹)	High	9.943	9.423	7.083	5.902	5.884	6.084	3.220	3.081	7.383	9.631	11.590	9.745	5.267
Peak flow (m ³ s ⁻¹)		43.10	42.60	41.60	28.00	31.30	36.00	34.60	12.40	79.00	44.50	38.70	52.10	79.00
Runoff (mm)		35	29	29	24	23	17	14	13	15	19	25	30	274
Rainfall (mm)		89	58	67	52	63	53	61	68	84	80	92	94	661

Factors affecting flow regime: G
Station type: C1982 runoff is 96% of previous mean
rainfall 107%**039014 Ver at Hansteads****1982**Measuring authority: TWA
First year: 1958Grid reference: TL 151016
Level stn. (m OD) 61.34Catchment area (sq km): 132.0
Max alt. (m OD): 243

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0.458	0.465	0.582	0.451	0.387	0.438	0.340	0.245	0.196	0.375	0.487	0.675	0.422
(m ³ s ⁻¹)	Peak	0.80	1.90	1.64	0.65	0.52	1.22	0.92	0.60	0.68	0.91	0.88	1.34	1.90
Runoff (mm)		9	9	11	9	8	9	7	5	4	8	9	14	101
Rainfall (mm)		49	32	81	26	58	124	38	42	55	127	102	75	809

Monthly and yearly statistics for previous record (Oct 1956 to Dec 1981)

Mean	Avg	0.483	0.552	0.595	0.568	0.505	0.432	0.372	0.333	0.297	0.309	0.366	0.418	0.435
flows	Low	0.126	0.190	0.138	0.114	0.069	0.045	0.028	0.016	0.025	0.057	0.039	0.048	0.095
(m ³ s ⁻¹)	High	0.881	1.336	1.312	1.254	1.028	0.857	0.652	0.564	0.660	0.668	0.791	0.977	0.762
Peak flow (m ³ s ⁻¹)		1.77	1.91	1.88	1.90	2.07	1.65	1.44	1.13	2.34	1.35	2.31	2.64	2.64
Runoff (mm)		10	10	12	11	10	8	8	7	6	6	7	8	104
Rainfall (mm)		63	49	57	51	53	58	54	59	63	63	66	74	710

Factors affecting flow regime: G
Station type: CC1982 runoff is 97% of previous mean
rainfall 114%**039016 Kennet at Theale****1982**Measuring authority: TWA
First year: 1961Grid reference: SU 649708
Level stn. (m OD) 43.37Catchment area (sq km): 1033.4
Max alt. (m OD): 297

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	18.730	18.430	19.980	14.770	10.780	7.977	6.021	4.963	4.755	7.851	10.630	15.870	11.663
(m ³ s ⁻¹)	Peak	31.60	25.00	38.60	20.90	14.40	11.10	7.87	8.66	9.54	22.00	29.10	35.00	38.60
Runoff (mm)		49	38	52	37	28	20	16	13	12	20	27	41	352
Rainfall (mm)		52	44	101	30	42	89	23	66	66	130	115	92	860

Monthly and yearly statistics for previous record (Oct 1961 to Dec 1981)

Mean	Avg	12.380	14.170	14.790	12.740	10.440	8.644	6.544	5.826	5.460	6.139	7.990	10.060	9.574
flows	Low	4.144	4.401	4.190	3.429	2.739	2.041	1.620	1.377	2.787	3.897	3.943	5.159	4.066
(m ³ s ⁻¹)	High	22.680	22.720	22.010	19.790	15.430	18.600	11.120	9.542	10.000	13.970	17.710	18.240	12.882
Peak flow (m ³ s ⁻¹)		48.30	44.80	44.30	31.70	30.10	70.80	19.00	19.40	33.40	29.40	43.50	47.30	70.80
Runoff (mm)		32	33	38	32	27	22	17	15	14	18	20	26	292
Rainfall (mm)		71	52	71	51	63	62	49	69	70	63	74	80	776

Factors affecting flow regime: R G I
Station type: C1982 runoff is 121% of previous mean
rainfall 110%**039019 Lambourn at Shaw****1982**Measuring authority: TWA
First year: 1962Grid reference: SU 470682
Level stn. (m OD) 75.59Catchment area (sq km): 234.1
Max alt. (m OD): 261

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.955	3.304	3.284	3.322	2.531	1.969	1.474	1.175	1.103	1.263	1.402	1.863	2.138
(m ³ s ⁻¹)	Peak	3.64	3.77	3.94	3.96	3.11	2.58	1.98	1.56	1.60	2.21	1.96	2.72	3.98
Runoff (mm)		34	34	38	37	29	22	17	13	12	14	16	21	287
Rainfall (mm)		49	38	97	34	33	78	18	55	61	126	103	81	773

Monthly and yearly statistics for previous record (Oct 1962 to Dec 1981)

Mean	Avg	1.825	2.058	2.422	2.429	2.160	1.876	1.549	1.322	1.193	1.173	1.254	1.416	1.704
flows	Low	0.826	0.796	0.743	0.695	0.639	0.573	0.538	0.485	0.681	0.683	0.757	0.855	0.739
(m ³ s ⁻¹)	High	3.410	3.618	3.583	3.550	2.979	2.764	2.359	2.048	1.699	1.921	2.392	2.551	2.161
Peak flow (m ³ s ⁻¹)		3.93	4.20	4.39	4.08	3.76	4.34	3.06	3.54	3.75	3.17	5.02	3.72	5.02
Runoff (mm)		19	21	28	27	25	21	18	15	13	13	14	16	230
Rainfall (mm)		64	51	69	49	62	61	51	66	65	57	72	76	743

Factors affecting flow regime: R G
Station type: C1982 runoff is 125% of previous mean
rainfall 104%

039022 Loddon at Sheepbridge

1982

Measuring authority TWA
First year: 1965

Grid reference SU 720652
Level stn. (m OD) 42.36

Catchment area (sq km) 164.5
Max alt. (m OD) 225

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	3.699	2.788	4.227	2.318	1.725	1.491	1.215	1.079	1.081	2.657	3.689	4.484	2.638
(m ³ s ⁻¹)	Peak	13.70	7.57	16.70	4.95	3.22	2.61	1.69	1.48	1.60	16.30	14.40	17.80	17.80
Runoff (mm)		60	41	69	37	28	23	20	18	17	43	58	73	487
Rainfall (mm)		48	48	95	26	61	75	21	55	64	151	115	93	852

Monthly and yearly statistics for previous record (Oct 1965 to Dec 1981)

Mean	Avg	3.223	3.275	3.000	2.380	2.081	1.656	1.244	1.198	1.320	1.577	2.092	2.714	2.138
flows	Low	1.230	1.266	1.160	0.988	0.873	0.730	0.661	0.590	0.777	0.839	0.863	1.225	1.207
(m ³ s ⁻¹)	High	5.366	5.067	4.495	4.026	3.433	4.166	1.563	1.544	3.487	3.021	5.989	4.348	2.599
Peak flow (m ³ s ⁻¹)		22.40	21.20	16.40	13.70	14.90	24.90	3.55	6.58	26.40	14.30	22.70	16.80	26.40
Runoff (mm)		52	48	49	37	34	26	20	20	21	26	33	44	410
Rainfall (mm)		75	58	64	48	63	54	50	60	71	63	78	79	763

Factors affecting flow regime: GEI
Station type: C

1982 runoff is 119% of previous mean
rainfall 112%

039023 Wye at Hedsor

1982

Measuring authority TWA
First year: 1964

Grid reference SU 896867
Level stn. (m OD) 26.82

Catchment area (sq km) 137.3
Max alt. (m OD) 244

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.257	1.279	1.500	1.554	1.404	1.318	1.162	1.019	0.919	1.044	1.071	1.374	1.242
(m ³ s ⁻¹)	Peak	2.11	1.74	2.84	2.64	2.53	3.51	2.10	2.09	1.77	3.14	2.40	2.84	3.61
Runoff (mm)		25	23	29	29	27	25	23	20	17	20	20	27	285
Rainfall (mm)		51	38	89	32	59	106	41	53	74	138	107	86	874

Monthly and yearly statistics for previous record (Dec 1964 to Dec 1981)

Mean	Avg	0.898	0.999	1.108	1.152	1.146	1.102	1.004	0.965	0.868	0.817	0.815	0.843	0.976
flows	Low	0.419	0.484	0.488	0.470	0.432	0.380	0.370	0.314	0.381	0.395	0.375	0.340	0.442
(m ³ s ⁻¹)	High	1.506	1.675	1.800	1.891	1.842	1.531	1.434	1.317	1.182	1.180	1.329	1.260	1.365
Peak flow (m ³ s ⁻¹)		3.04	2.76	3.21	3.26	3.10	2.94	2.94	4.17	4.43	2.87	2.79	2.85	4.43
Runoff (mm)		18	18	22	22	22	21	20	19	16	16	15	18	224
Rainfall (mm)		70	53	62	52	64	61	59	70	71	60	69	78	769

Factors affecting flow regime: G1
Station type: C

1982 runoff is 127% of previous mean
rainfall 114%

039026 Cherwell at Banbury

1982

Measuring authority TWA
First year: 1966

Grid reference SP 458411
Level stn. (m OD) 88.85

Catchment area (sq km) 199.4
Max alt. (m OD) 222

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.853	1.153	3.051	0.666	0.250	0.348	0.125	0.088	0.072	0.438	1.276	1.869	1.016
(m ³ s ⁻¹)	Peak	8.77	4.16	13.80	1.71	0.53	2.63	0.60	0.27	0.53	1.52	5.39	8.96	13.80
Runoff (mm)		38	14	41	9	3	5	2	1	1	6	17	25	161
Rainfall (mm)		47	38	86	22	33	115	47	69	65	76	70	57	720

Monthly and yearly statistics for previous record (Dec 1966 to Dec 1981)

Mean	Avg	2.472	2.521	2.718	0.948	0.826	0.457	0.269	0.420	0.276	0.505	0.828	1.927	1.134
flows	Low	0.074	0.049	0.031	0.017	0.010	0.008	0.004	0.009	0.016	0.013	0.018	0.056	0.259
(m ³ s ⁻¹)	High	5.019	5.320	4.781	2.030	2.076	1.434	1.889	1.343	1.532	1.715	2.828	3.967	1.672
Peak flow (m ³ s ⁻¹)		23.60	45.90	46.40	12.00	11.20	16.90	27.20	17.20	7.25	9.00	18.20	54.10	54.10
Runoff (mm)		33	31	30	12	11	6	4	6	4	7	11	26	179
Rainfall (mm)		64	48	66	37	56	61	54	74	58	47	56	68	689

Factors affecting flow regime: P
Station type: CC

1982 runoff is 90% of previous mean
rainfall 104%

039049 Silk Stream at Colindeep Lane

1982

Measuring authority GLC
First year: 1973

Grid reference TQ 217895
Level stn. (m OD) 39.90

Catchment area (sq km) 29.0
Max alt. (m OD) 146

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0.391	0.215	0.316	0.166	0.196	0.640	0.112	0.159	0.090	0.507	0.484	0.487	0.314
(m ³ s ⁻¹)	Peak													
Runoff (mm)		36	18	29	15	18	57	10	15	8	47	43	45	342
Rainfall (mm)		40	31	58	30	74	149	28	58	47	131	91	74	809

Monthly and yearly statistics for previous record (Dec 1973 to Dec 1981—incomplete or missing months total 4.0 years)

Mean	Avg	0.331	0.338	0.479	0.266	0.270	0.175	0.149	0.129	0.140	0.303	0.407	0.333	0.277
flows	Low	0.200	0.101	0.197	0.030	0.035	0.105	0.047	0.079	0.057	0.154	0.143	0.143	0.216
(m ³ s ⁻¹)	High	0.564	0.474	0.677	0.573	0.584	0.280	0.213	0.700	0.276	0.376	1.086	0.659	0.289
Peak flow (m ³ s ⁻¹)		9.00	4.85	8.89	10.26	11.80	7.59	16.53	10.11	3.83	16.56	24.27	36.31	36.31
Runoff (mm)		31	28	44	24	25	16	14	12	12	28	36	31	301
Rainfall (mm)		56	47	66	44	59	52	41	54	74	61	60	69	683

Factors affecting flow regime:
Station type: FV

1982 runoff is 113% of previous mean
rainfall 118%

039069 Mole at Kinnersley Manor**1982**Measuring authority: TWA
First year: 1972Grid reference: TQ 262462
Level stn. (m OD) 48.00Catchment area (sq km): 142.0
Max alt. (m OD): 178**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	3 006	1 961	3 040	0 739	0 573	0 924	0 433	0 523	0 593	6 062	4 393	5 445	2 303
(m ³ s ⁻¹)	Peak	16.10	10.20	15.70	2.12	6.49	9.91	3.43	3.77	6.15	45.90	26.30	55.10	55.10
Runoff (mm)		57	33	57	13	10	17	8	10	11	114	80	103	514
Rainfall (mm)														

Monthly and yearly statistics for previous record (Dec 1972 to Dec 1981—incomplete or missing months total 1.5 years)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	3 314	3 245	2 749	1 467	1 707	0 940	0 616	0 717	1 309	1 404	2 048	3 545	1 917
Flows	Low	1 364	0 829	0 833	0 388	0 305	0 221	0 296	0 169	0 281	0 207	0 260	1 100	0 950
(m ³ s ⁻¹)	High	5 576	5 883	4 668	3 397	3 552	1 874	1 709	1 763	5 419	2 912	5 668	5 474	2 244
Peak flow (m ³ s ⁻¹)		41.30	48.50	20.10	47.00	32.90	23.30	14.90	29.80	40.70	23.90	56.10	68.50	68.50
Runoff (mm)		63	56	52	27	32	17	12	14	24	26	37	67	426
Rainfall (mm)														

Factors affecting flow regime:
Station type: MIS

1982 runoff is 121% of previous mean

040003 Medway at Teston**1982**Measuring authority: SWA
First year: 1956Grid reference: TQ 708530
Level stn. (m OD) 7.01Catchment area (sq km): 1256.1
Max alt. (m OD): 267**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	19 840	13 750	16 930	5 891	3 847	3 562	2 567	2 581	2 684	21 820	24 200	34 910	12 715
(m ³ s ⁻¹)	Peak													
Runoff (mm)		42	26	38	12	8	7	5	6	6	47	50	74	320
Rainfall (mm)		49	36	70	13	41	75	30	58	60	177	108	94	811

Monthly and yearly statistics for previous record (Oct 1956 to Dec 1981—incomplete or missing months total 1.5 years)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	22 130	20 190	15 220	10 030	7 003	4 730	2 886	3 242	5 524	7 288	16 150	19 350	11 100
Flows	Low	4 910	5 260	3 382	2 326	1 749	1 139	1 116	0 577	1 066	1 402	2 341	4 362	7 584
(m ³ s ⁻¹)	High	45 370	49 150	31 600	21 370	20 820	21 690	7 550	7 888	30 090	37 860	66 830	37 330	19 327
Peak flow (m ³ s ⁻¹)		162.50	148.70	169.30	105.90	58.90	128.60	23.82	60.60	86.93	154.00	294.50	202.50	294.60
Runoff (mm)		47	39	32	21	15	10	6	7	11	16	33	41	279
Rainfall (mm)		71	53	56	48	53	55	54	60	76	69	83	81	759

Factors affecting flow regime: S PG
Station type: MIS1982 runoff is 115% of previous mean
rainfall 107%**040004 Rother at Udiam****1982**Measuring authority: SWA
First year: 1962Grid reference: TQ 773245
Level stn. (m OD) 1.94Catchment area (sq km): 206.0
Max alt. (m OD): 197**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	3 710	2 434	2 732	1 224	0 561	0 517	0 391	0 447	0 534	4 740	5 319	5 816	2 389
(m ³ s ⁻¹)	Peak	21.16	10.63	12.25	2.92	1.19	2.93	0.72	1.13	3.55	19.94	40.97	32.71	40.97
Runoff (mm)		48	29	36	15	7	7	5	6	7	62	67	78	363
Rainfall (mm)		52	43	70	18	32	77	19	75	93	195	138	109	921

Monthly and yearly statistics for previous record (Oct 1962 to Dec 1981—incomplete or missing months total 1.8 years)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	3 419	3 581	3 790	2 161	1 442	1 078	0 500	0 605	0 976	1 465	3 036	3 288	2 062
Flows	Low	0 945	0 792	0 657	0 343	0 338	0 268	0 231	0 182	0 245	0 179	0 184	0 427	0 756
(m ³ s ⁻¹)	High	6 957	10 370	6 927	4 533	2 567	4 157	0 834	1 823	3 952	5 708	12 360	9 547	3 322
Peak flow (m ³ s ⁻¹)		37.96	44.74	49.84	25.43	24.09	23.08	12.74	14.38	33.98	29.17	50.43	51.82	51.82
Runoff (mm)		44	42	43	27	19	14	6	8	12	19	38	43	316
Rainfall (mm)		79	65	72	56	59	65	52	64	83	78	100	88	861

Factors affecting flow regime: S GE
Station type: VA1982 runoff is 115% of previous mean
rainfall 107%**040009 Teise at Stone Bridge****1982**Measuring authority: SWA
First year: 1961Grid reference: TQ 718399
Level stn. (m OD) 24.50Catchment area (sq km): 136.2
Max alt. (m OD): 201**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2 305	1 628	2 303	0 919	1 130	0 958	0 861	0 777	0 803	2 311	2 900	3 476	1 697
(m ³ s ⁻¹)	Peak	14.37	9.72	11.54	2.46	2.57	1.74	1.23	1.24	2.48	19.75	19.67	19.78	19.78
Runoff (mm)		45	29	45	17	22	18	17	15	15	45	55	68	394
Rainfall (mm)		52	42	83	19	41	76	28	76	81	188	130	109	925

Monthly and yearly statistics for previous record (Oct 1961 to Dec 1981—incomplete or missing months total 0.2 years)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	2 411	2 211	1 975	1 388	1 089	0 776	0 471	0 464	0 662	0 943	1 786	1 980	1 342
Flows	Low	0 553	0 522	0 413	0 323	0 239	0 130	0 231	0 100	0 170	0 128	0 276	0 471	0 559
(m ³ s ⁻¹)	High	5 757	6 241	3 928	2 781	2 306	2 628	0 977	1 021	2 359	3 173	6 344	5 334	2 101
Peak flow (m ³ s ⁻¹)		41.63	48.27	34.43	24.78	38.95	29.22	13.87	10.61	23.88	29.17	47.12	48.29	48.29
Runoff (mm)		47	40	39	26	21	15	9	9	13	19	34	39	311
Rainfall (mm)		73	56	67	52	58	58	49	59	79	70	89	82	792

Factors affecting flow regime: PGE
Station type: B VA1982 runoff is 127% of previous mean
rainfall 117%

041001 Nunningham Stream at Tilley Bridge**1982**Measuring authority SWA
First year: 1950Grid reference TQ 662129
Level stn. (m OD) 3.80Catchment area (sq km) 16.9
Max alt. (m OD) 137**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0.312	0.225	0.190	0.074	0.037	0.026	0.018	0.018	0.030	0.428	0.640	0.742	0.228
(m ³ s ⁻¹)	Peak	7.75	2.85	2.09	0.22	0.10	0.13	0.05	0.07	0.31	8.63	8.67	8.84	8.84
Runoff (mm)		49	32	30	11	6	4	3	3	5	68	98	118	427
Rainfall (mm)		42	39	60	17	30	73	17	66	88	183	127	100	842

Monthly and yearly statistics for previous record (Apr 1950 to Dec 1981)

Mean	Avg	0.394	0.342	0.249	0.143	0.082	0.055	0.035	0.041	0.059	0.124	0.306	0.339	0.180
flows	Low	0.076	0.094	0.054	0.034	0.023	0.012	0.011	0.008	0.009	0.013	0.019	0.033	0.063
(m ³ s ⁻¹)	High	0.865	0.958	0.577	0.296	0.195	0.319	0.210	0.125	0.359	0.576	1.017	1.082	0.306
Peak flow (m ³ s ⁻¹)		8.82	8.60	8.49	5.94	6.20	7.92	1.89	9.32	8.92	8.82	11.90	8.84	11.90
Runoff (mm)		62	49	39	72	13	9	5	7	9	20	47	54	338
Rainfall (mm)		76	71	63	53	57	60	57	71	80	79	95	90	852

Factors affecting flow regime N
Station type MIS1982 runoff is 127% of previous mean
rainfall 99%**041005 Ouse at Gold Bridge****1982**Measuring authority SWA
First year: 1960Grid reference TQ 429214
Level stn. (m OD) 11.43Catchment area (sq km): 180.9
Max alt. (m OD): 203**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	3.999	2.788	3.729	1.470	0.811	0.686	0.616	0.782	0.650	3.706	3.565	8.377	2.430
(m ³ s ⁻¹)	Peak	114.60	8.69	112.00	3.31	1.73	2.50	1.46	1.55	1.44	98.50	109.20	117.30	117.30
Runoff (mm)		59	37	55	21	12	10	9	11	9	55	51	94	425
Rainfall (mm)		49	38	81	16	43	64	25	70	70	209	116	110	891

Monthly and yearly statistics for previous record (Mar 1960 to Dec 1981)

Mean	Avg	4.100	3.623	3.091	2.213	1.753	1.093	0.622	0.687	1.141	1.709	3.502	3.455	2.242
flows	Low	1.142	1.240	0.793	0.611	0.451	0.283	0.217	0.157	0.230	0.275	0.384	0.846	0.934
(m ³ s ⁻¹)	High	7.762	8.214	6.888	4.318	3.657	3.829	1.903	2.088	4.296	6.602	12.030	7.657	3.261
Peak flow (m ³ s ⁻¹)		46.80	71.85	29.88	31.57	26.35	27.91	16.57	101.20	112.00	47.59	86.92	109.30	112.00
Runoff (mm)		61	49	46	32	26	16	9	10	16	25	50	51	391
Rainfall (mm)		84	60	68	60	62	63	54	67	89	81	103	90	881

Factors affecting flow regime SRPGE
Station type CBVA1982 runoff is 109% of previous mean
rainfall 101%**041006 Uck at Isfield****1982**Measuring authority SWA
First year: 1964Grid reference TQ 459190
Level stn. (m OD) 11.28Catchment area (sq km) 87.8
Max alt. (m OD) 221**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.037	1.409	1.545	0.620	0.450	0.348	0.232	0.237	0.282	2.525	3.784	4.004	1.467
(m ³ s ⁻¹)	Peak	41.58	9.80	32.22	1.23	0.72	1.51	0.43	0.68	2.07	35.93	51.00	49.64	61.00
Runoff (mm)		62	39	47	18	14	10	7	7	8	77	112	127	624
Rainfall (mm)		48	46	65	13	37	74	20	65	83	185	129	106	871

Monthly and yearly statistics for previous record (Oct 1964 to Dec 1981)

Mean	Avg	1.983	1.929	1.408	1.014	0.764	0.511	0.353	0.323	0.619	0.801	1.522	1.831	1.084
flows	Low	0.579	0.627	0.413	0.324	0.257	0.170	0.142	0.106	0.170	0.160	0.211	0.342	0.480
(m ³ s ⁻¹)	High	4.030	4.195	3.317	2.162	1.420	1.657	1.489	0.827	2.868	2.527	6.536	4.034	1.945
Peak flow (m ³ s ⁻¹)		40.75	75.63	39.12	23.68	21.86	29.59	46.63	10.72	36.40	37.31	64.43	55.58	75.63
Runoff (mm)		61	54	43	30	23	15	11	10	18	24	45	56	389
Rainfall (mm)		80	65	65	49	58	67	52	63	83	73	92	85	832

Factors affecting flow regime E
Station type: C1982 runoff is 135% of previous mean
rainfall 105%**041025 Loxwood Stream at Drungewick****1982**Measuring authority SWA
First year: 1972Grid reference TQ 060309
Level stn. (m OD) 13.15Catchment area (sq km) 91.6
Max alt. (m OD) 260**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.431	0.851	2.130	0.356	0.215	0.220	0.110	0.101	0.182	3.282	2.735	3.543	1.262
(m ³ s ⁻¹)	Peak	7.54	4.90	23.28	1.84	1.23	2.50	0.34	0.24	0.89	36.48	24.38	33.78	36.48
Runoff (mm)		42	23	62	10	6	6	3	3	5	95	77	104	437
Rainfall (mm)		42	38	86	19	51	86	34	55	80	168	125	103	887

Monthly and yearly statistics for previous record (Jan 1972 to Dec 1981—incomplete or missing months total 0.1 years)

Mean	Avg	2.207	1.785	1.755	0.947	0.893	0.305	0.110	0.190	0.579	0.893	1.243	2.385	1.107
flows	Low	0.286	0.375	0.196	0.116	0.078	0.041	0.032	0.018	0.043	0.044	0.062	0.618	0.311
(m ³ s ⁻¹)	High	4.264	3.497	3.832	2.680	2.799	1.334	0.227	0.685	2.470	2.641	4.748	4.536	1.509
Peak flow (m ³ s ⁻¹)		34.88	36.49	31.33	41.61	32.73	36.90	5.66	22.48	36.44	35.26	34.58	56.75	56.75
Runoff (mm)		65	48	51	27	26	9	3	6	16	26	35	70	381
Rainfall (mm)		83	56	73	46	60	59	48	57	83	73	75	97	805

Factors affecting flow regime N
Station type: CC1982 runoff is 115% of previous mean
rainfall 110%

042003 Lymington at Brockenhurst Park**1982**Measuring authority: SWA
First year: 1960Grid reference: SU 318019
Level stn. (m OD) 6.10Catchment area (sq km): 98.9
Max alt. (m OD): 114

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.689	1.271	2.178	0.758	0.604	0.699	0.258	0.188	0.223	2.284	2.242	1.789	1.182
(m ³ s ⁻¹)	Peak	5.38	5.72	8.07	7.28	7.84	7.67	2.49	2.12	2.69	7.93	7.95	7.95	8.07
Runoff (mm)		46	31	59	20	16	18	7	5	6	62	59	48	377
Rainfall (mm)		48	48	94	25	60	106	53	65	61	184	136	106	986

Monthly and yearly statistics for previous record (Oct 1960 to Dec 1981—incomplete or missing months total 0.2 years)

Mean	Avg	1.822	1.777	1.467	1.000	0.837	0.460	0.258	0.282	0.517	1.052	1.402	1.536	1.031
flows	Low	0.330	0.439	0.327	0.168	0.128	0.042	0.013	0.014	0.084	0.128	0.198	0.541	0.407
(m ³ s ⁻¹)	High	3.723	3.459	3.089	2.169	1.569	1.247	1.603	0.847	2.308	4.841	5.283	3.294	1.340
Peak flow (m ³ s ⁻¹)		9.91	13.82	8.64	8.32	13.98	7.85	11.38	8.16	8.47	11.28	13.54	14.91	14.91
Runoff (mm)		49	44	40	26	23	12	7	8	14	28	37	42	329
Rainfall (mm)		88	62	69	52	62	57	44	63	62	82	93	90	844

Factors affecting flow regime: N
Station type: VN1982 runoff is 115% of previous mean
rainfall 117%**042006 Meon at Mislingford****1982**Measuring authority: SWA
First year: 1968Grid reference: SU 589141
Level stn. (m OD) 29.33Catchment area (sq km): 72.8
Max alt. (m OD): 233

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.861	1.591	1.835	1.485	0.931	0.608	0.416	0.269	0.220	0.499	1.200	2.499	1.118
(m ³ s ⁻¹)	Peak	2.41	1.88	2.27	2.05	1.23	0.85	0.67	0.62	0.28	1.25	2.27	3.77	3.77
Runoff (mm)		68	53	68	53	34	22	15	10	8	18	43	92	484
Rainfall (mm)		51	57	99	26	58	101	37	64	70	181	134	116	994

Monthly and yearly statistics for previous record (Oct 1968 to Dec 1981)

Mean	Avg	1.471	1.770	1.685	1.380	1.039	0.757	0.547	0.411	0.369	0.561	0.874	1.121	0.996
flows	Low	0.463	0.480	0.427	0.335	0.184	0.120	0.079	0.068	0.102	0.110	0.124	0.188	0.334
(m ³ s ⁻¹)	High	3.470	3.300	2.820	1.988	1.738	1.220	0.827	0.657	0.682	2.309	4.126	3.917	1.807
Peak flow (m ³ s ⁻¹)		3.25	4.02	3.26	2.83	2.06	1.50	1.18	1.08	0.96	1.50	2.83	2.59	4.02
Runoff (mm)		54	59	62	49	38	27	20	15	13	21	31	41	431
Rainfall (mm)		97	63	75	59	67	59	55	72	88	88	101	102	926

Factors affecting flow regime: G
Station type: FL1982 runoff is 112% of previous mean
rainfall 107%**042008 Cheriton Stream at Swards Bridge****1982**Measuring authority: SWA
First year: 1970Grid reference: SU 574323
Level stn. (m OD) 55.80Catchment area (sq km): 75.1
Max alt. (m OD): 234

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0.928	0.909	1.031	0.860	0.711	0.482	0.418	0.369	0.349	0.565	0.794	1.278	0.724
(m ³ s ⁻¹)	Peak	1.06	1.06	1.22	1.02	0.85	0.86	0.50	0.49	0.44	0.91	1.17	1.85	1.85
Runoff (mm)		33	29	37	30	25	17	15	13	12	20	27	46	304
Rainfall (mm)		51	55	105	24	54	104	33	62	73	187	139	115	1002

Monthly and yearly statistics for previous record (Jul 1970 to Dec 1981—incomplete or missing months total 0.1 years)

Mean	Avg	0.758	0.919	0.910	0.829	0.677	0.568	0.440	0.411	0.381	0.424	0.517	0.671	0.624
flows	Low	0.521	0.495	0.409	0.320	0.271	0.218	0.183	0.165	0.207	0.279	0.278	0.320	0.408
(m ³ s ⁻¹)	High	1.129	1.443	1.410	1.065	0.857	0.959	0.564	0.708	0.560	0.872	0.980	1.169	0.761
Peak flow (m ³ s ⁻¹)		1.38	1.83	1.88	1.39	1.26	2.02	1.25	1.28	0.77	0.89	1.23	1.20	2.02
Runoff (mm)		27	30	32	29	24	20	16	15	13	15	18	24	262
Rainfall (mm)		97	68	81	46	60	58	57	62	85	71	99	99	883

Factors affecting flow regime: N
Station type: C1982 runoff is 116% of previous mean
rainfall 113%**042012 Anton at Fullerton****1982**Measuring authority: SWA
First year: 1973Grid reference: SU 379393
Level stn. (m OD) 40.51Catchment area (sq km): 185.0
Max alt. (m OD): 253

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.813	2.788	3.276	2.862	2.142	1.751	1.638	1.520	1.409	1.756	2.116	2.855	2.244
(m ³ s ⁻¹)	Peak													
Runoff (mm)		41	36	47	40	31	25	24	22	20	25	30	41	382
Rainfall (mm)		50	51	104	29	44	101	18	84	57	141	110	97	868

Monthly and yearly statistics for previous record (Jan 1975 to Dec 1981)

Mean	Avg	2.049	2.378	2.518	2.497	2.159	1.881	1.544	1.373	1.302	1.388	1.471	1.737	1.866
flows	Low	1.301	1.215	1.047	0.948	0.830	0.691	0.626	0.548	0.688	1.015	1.003	1.417	1.010
(m ³ s ⁻¹)	High	2.907	3.691	3.382	3.135	2.842	2.817	2.196	1.784	1.536	1.888	1.919	2.156	2.200
Peak flow (m ³ s ⁻¹)		3.55	2.89	2.90	2.81	2.96	2.56	2.18	2.27	1.67	1.81	2.14	2.27	3.66
Runoff (mm)		30	31	36	35	31	26	22	20	18	20	21	25	316
Rainfall (mm)		71	57	91	38	59	46	47	61	71	65	59	105	770

Factors affecting flow regime: N
Station type: C1982 runoff is 121% of previous mean
rainfall 112%

043007 Stour at Throop Mill**1982**Measuring authority: WWA
First year: 1972Grid reference: SZ 113958
Level stn. (m OD) 4.35Catchment area (sq km): 1073.0
Max alt. (m OD): 277**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	24 870	18 880	31 120	13 680	6 677	4 993	7 932	4 895	4 125	19 500	33 370	33 440	16 940
(m ³ s ⁻¹)	Peak	45 83	45 72	110 20	30 74	10 06	8 56	47 60	7 57	7 47	62 85	94 79	81 20	110 20
Runoff (mm)		62	43	78	33	17	12	20	12	10	49	81	83	488
Rainfall (mm)		49	57	114	23	42	110	83	71	62	147	133	98	989

Monthly and yearly statistics for previous record (Jan 1973 to Dec 1981)

Mean	Avg	22 470	28 470	22 850	13 370	9 957	6 910	4 398	4 593	6 087	9 822	12 420	22 640	13 443
flows	Low	4 319	6 828	7 548	4 483	3 157	2 231	1 614	1 358	2 455	2 718	2 823	6 386	6 138
(m ³ s ⁻¹)	High	35 150	42 200	32 620	22 660	18 900	16 410	6 141	8 998	20 340	29 770	36 370	40 270	17 377
Peak flow (m ³ s ⁻¹)		116 60	131 50	90 87	61 58	161 20	159 20	13 81	32 41	90 33	101 90	133 40	190 70	190 70
Runoff (mm)		56	60	57	32	25	17	11	11	15	25	30	57	396
Rainfall (mm)		83	78	85	36	63	55	52	62	93	74	74	110	865

Factors affecting flow regime: I
Station type: CC1982 runoff is 126% of previous mean
rainfall 114%**044002 Piddle at Baggs Mill****1982**Measuring authority: WWA
First year: 1963Grid reference: SY 913876
Level stn. (m OD) 2.06Catchment area (sq km): 183.1
Max alt. (m OD): 275**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	4 611	3 864	5 700	3 716	2 084	1 484	1 187	1 024	0 870	1 771	3 023	5 035	2 884
(m ³ s ⁻¹)	Peak	5 80	6 01	8 84	5 88	2 48	2 28	1 44	1 51	0 91	4 32	6 06	7 96	8 84
Runoff (mm)		67	51	83	53	30	21	17	15	12	26	43	74	493
Rainfall (mm)		57	76	139	28	48	102	64	78	63	177	152	119	1101

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981)

Mean	Avg	3 486	4 394	4 074	3 021	2 208	1 699	1 280	1 126	1 161	1 390	2 060	2 715	2 374
flows	Low	1 045	1 020	1 093	0 945	0 757	0 549	0 483	0 433	0 604	0 676	0 721	0 853	1 327
(m ³ s ⁻¹)	High	5 889	6 616	6 202	4 782	3 376	2 907	1 755	1 526	2 300	2 581	5 047	5 504	3 233
Peak flow (m ³ s ⁻¹)		11 87	9 16	9 37	6 48	8 11	9 23	4 79	4 50	8 18	9 29	9 20	8 44	11 87
Runoff (mm)		51	58	60	43	32	24	19	16	16	20	29	40	408
Rainfall (mm)		107	87	86	50	72	60	51	81	92	86	105	110	967

Factors affecting flow regime: I
Station type: FL1982 runoff is 121% of previous mean
rainfall 114%**045001 Exe at Thorverton****1982**Measuring authority: SWWA
First year: 1956Grid reference: SS 936016
Level stn. (m OD) 25.85Catchment area (sq km): 600.9
Max alt. (m OD): 519**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	33 790	16 200	36 920	6 214	3 080	2 845	5 296	2 897	4 685	19 850	39 050	42 300	17 781
(m ³ s ⁻¹)	Peak	71 73	38 31	143 50	22 72	5 48	6 94	77 36	7 25	30 83	63 16	154 50	240 20	240 20
Runoff (mm)		151	65	165	27	14	12	24	13	20	88	168	189	936
Rainfall (mm)		110	80	161	26	43	116	67	90	98	138	209	195	1333

Monthly and yearly statistics for previous record (May 1956 to Dec 1981)

Mean	Avg	27 760	26 550	19 020	12 720	8 682	5 795	4 703	6 515	9 651	16 440	21 670	30 060	15 762
flows	Low	5 438	6 451	6 376	4 340	2 593	1 989	1 153	0 696	1 699	1 561	5 297	12 460	9 698
(m ³ s ⁻¹)	High	42 750	47 220	49 630	28 800	17 680	15 870	19 770	17 140	35 830	59 830	44 000	68 440	22 601
Peak flow (m ³ s ⁻¹)		229 30	213 50	265 60	139 40	55 52	94 62	202 00	88 47	236 50	250 10	200 60	492 60	492 60
Runoff (mm)		124	108	85	55	39	25	21	29	47	73	93	134	827
Rainfall (mm)		138	107	102	73	79	71	83	98	112	121	127	152	1263

Factors affecting flow regime: PGEI
Station type: VA1982 runoff is 113% of previous mean
rainfall 106%**045003 Culm at Wood Mill****1982**Measuring authority: SWWA
First year: 1962Grid reference: ST 021058
Level stn. (m OD) 43.97Catchment area (sq km): 226.1
Max alt. (m OD): 293**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	7 199	5 426	8 240	2 435	1 758	1 730	1 466	1 358	1 866	4 354	8 191	7 712	4 311
(m ³ s ⁻¹)	Peak	28 27	24 73	40 82	8 30	5 25	5 05	7 01	2 62	14 35	32 20	69 27	33 66	69 27
Runoff (mm)		85	58	98	28	21	20	17	16	21	52	94	91	601
Rainfall (mm)		74	79	125	21	35	92	44	62	90	119	151	118	1010

Monthly and yearly statistics for previous record (Oct 1962 to Dec 1981)

Mean	Avg	6 314	6 696	5 229	3 173	2 830	2 059	1 859	1 672	1 997	2 956	4 203	5 775	3 718
flows	Low	1 930	2 251	2 392	1 318	1 085	0 803	0 650	0 569	0 971	1 287	2 479	2 277	2 277
(m ³ s ⁻¹)	High	10 740	11 820	9 184	6 649	4 881	4 449	5 200	2 787	7 328	11 430	8 137	11 880	4 840
Peak flow (m ³ s ⁻¹)		78 23	100 10	50 11	41 63	33 82	30 58	202 20	58 62	94 16	45 87	134 50	142 80	202 20
Runoff (mm)		75	72	62	36	34	24	22	20	23	35	48	68	518
Rainfall (mm)		107	88	88	55	72	64	62	67	80	85	95	110	973

Factors affecting flow regime: PGEI
Station type: VA1982 runoff is 116% of previous mean
rainfall 104%

045005 Otter at Dotton**1982**Measuring authority: SWWA
First year: 1963Grid reference: SY 087885
Level stn. (m OD) 14.52Catchment area (sq km): 202.5
Max alt. (m OD): 299**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	5.294	4.358	5.656	2.040	1.596	1.525	1.337	1.261	1.494	3.785	7.006	5.460	3.401
(m ³ s ⁻¹):	Peak	20.56	28.38	41.24	4.47	5.55	4.13	5.97	2.74	8.27	40.59	63.02	33.78	63.02
Runoff (mm)		70	52	75	26	21	20	18	17	19	50	90	72	528
Rainfall (mm)		70	84	110	17	40	97	53	63	77	125	158	103	997

Monthly and yearly statistics for previous record (Mar 1963 to Dec 1981)

Mean	Avg.	5.899	5.650	4.515	2.655	2.477	1.852	1.633	1.452	1.738	2.694	3.642	5.010	3.242
flows	Low	1.502	1.308	1.908	1.150	0.941	0.716	0.587	0.542	0.980	1.051	1.257	1.758	2.071
(m ³ s ⁻¹):	High	9.989	10.880	7.293	5.392	5.354	3.080	4.771	2.568	4.580	9.655	8.772	9.875	3.646
Peak flow (m ³ s ⁻¹)		100.80	73.08	65.25	69.66	80.38	45.87	346.90	35.86	66.91	47.58	84.95	123.60	346.90
Runoff (mm)		75	68	60	34	33	24	22	19	27	38	47	66	605
Rainfall (mm)		119	95	88	53	78	64	61	64	80	88	95	113	996

Factors affecting flow regime: SRPGEI
Station type: VA1982 runoff is 105% of previous mean
rainfall 100%**046002 Teign at Preston****1982**Measuring authority: SWWA
First year: 1956Grid reference: SX 856746
Level stn. (m OD) 3.83Catchment area (sq km): 380.0
Max alt. (m OD): 604**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	21.850	12.100	22.610	5.265	2.530	2.742	2.194	1.655	2.294	10.160	23.190	23.030	10.785
(m ³ s ⁻¹):	Peak	78.29	60.77	78.05	20.41	5.60	16.53	9.31	6.79	18.62	52.80	153.40	97.44	153.40
Runoff (mm)		153	77	159	36	18	19	15	12	16	72	158	162	896
Rainfall (mm)		106	111	172	22	37	134	51	62	104	170	219	170	1358

Monthly and yearly statistics for previous record (May 1956 to Dec 1981)—incomplete or missing months total 0.1 years

Mean	Avg.	18.930	19.290	13.530	8.216	5.471	3.690	2.490	2.516	3.729	7.902	10.480	16.510	9.353
flows	Low	3.341	5.634	4.878	3.514	1.827	1.114	0.731	0.472	0.752	0.917	1.978	4.954	5.212
(m ³ s ⁻¹):	High	38.080	38.750	29.940	21.960	13.340	9.522	7.334	5.549	14.080	41.570	28.960	37.820	18.681
Peak flow (m ³ s ⁻¹)		172.70	198.20	146.60	127.50	86.08	81.35	98.87	72.64	312.80	190.00	153.60	248.40	312.80
Runoff (mm)		133	124	95	56	39	25	18	18	25	56	72	116	776
Rainfall (mm)		158	123	111	73	83	66	71	87	104	118	128	158	1280

Factors affecting flow regime: SRPGEI
Station type: VA1982 runoff is 115% of previous mean
rainfall 106%**046003 Dart at Austins Bridge****1982**Measuring authority: SWWA
First year: 1958Grid reference: SX 751659
Level stn. (m OD) 22.43Catchment area (sq km): 247.6
Max alt. (m OD): 604**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	18.860	13.110	22.850	5.408	2.510	4.087	3.235	2.695	4.712	17.860	27.050	23.860	12.020
(m ³ s ⁻¹):	Peak	40.39	104.50	119.40	57.29	5.25	39.89	6.52	25.00	67.20	109.40	317.80	166.70	317.80
Runoff (mm)		182	128	247	57	27	43	35	29	49	193	283	258	1532
Rainfall (mm)		140	171	245	49	57	175	56	120	136	264	306	265	1984

Monthly and yearly statistics for previous record (Oct 1958 to Dec 1981)

Mean	Avg.	19.490	17.880	14.540	9.903	7.611	5.171	3.958	4.672	8.152	10.460	14.350	19.110	11.082
flows	Low	5.435	4.270	5.731	3.566	2.220	1.456	0.996	0.713	0.805	1.229	5.048	8.650	7.304
(m ³ s ⁻¹):	High	36.080	37.760	33.520	22.720	14.290	14.260	10.930	8.490	26.290	28.000	32.960	35.540	15.682
Peak flow (m ³ s ⁻¹)		284.00	309.40	218.30	187.40	98.88	253.00	206.50	190.30	327.60	168.20	295.50	549.70	549.70
Runoff (mm)		211	176	157	104	82	54	43	51	84	113	150	207	1412
Rainfall (mm)		225	168	166	115	110	91	95	119	136	167	195	229	1816

Factors affecting flow regime: SRPGEI
Station type: VA1982 runoff is 108% of previous mean
rainfall 109%**047007 Yealm at Puslinch****1982**Measuring authority: SWWA
First year: 1962Grid reference: SX 574511
Level stn. (m OD) 5.49Catchment area (sq km): 54.9
Max alt. (m OD): 492**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	2.854	1.803	3.852	0.919	0.458	0.455	0.383	0.324	0.517	3.098	3.532	3.733	1.827
(m ³ s ⁻¹):	Peak	9.99	8.11	22.23	9.17	1.09	2.23	1.06	2.00	5.24	17.22	19.03	17.46	22.23
Runoff (mm)		139	79	188	43	22	21	19	16	24	151	167	182	1053
Rainfall (mm)		111	128	192	42	66	135	45	116	110	263	222	234	1664

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981)—incomplete or missing months total 0.2 years

Mean	Avg.	2.890	3.072	2.238	1.314	1.056	0.864	0.622	0.645	0.861	1.341	2.126	2.824	1.648
flows	Low	0.563	1.318	0.659	0.572	0.327	0.171	0.095	0.057	0.183	0.121	0.373	1.171	1.052
(m ³ s ⁻¹):	High	4.603	5.806	5.290	3.646	1.997	2.377	1.863	1.778	3.630	3.808	4.872	6.108	2.210
Peak flow (m ³ s ⁻¹)		23.22	23.24	24.11	20.53	17.53	23.47	25.22	23.79	21.33	22.29	26.62	23.13	26.62
Runoff (mm)		141	136	109	62	57	41	30	31	41	65	100	138	947
Rainfall (mm)		160	139	129	77	98	91	87	98	114	120	155	166	1434

Factors affecting flow regime: PGEI
Station type: FLVA1982 runoff is 111% of previous mean
rainfall 116%

047008 Thrushel at Tinhay**1982**Measuring authority: SWWA
First year: 1969Grid reference: SX 398856
Level stn. (m OD) 55.47Catchment area (sq km): 112.7
Max alt. (m OD): 299**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	3.720	3.593	5.901	0.740	0.247	0.333	0.246	0.253	0.898	4.524	7.195	6.318	2.831
(m ³ s ⁻¹)	Peak	20.51	25.14	32.31	3.80	0.58	2.91	2.05	2.78	15.24	30.08	46.73	33.64	46.73
Runoff (mm)		88	77	140	17	6	8	6	6	21	108	165	150	792
Rainfall (mm)		86	107	155	23	28	127	47	88	101	148	188	160	1266

Monthly and yearly statistics for previous record (Nov 1969 to Dec 1981)

Mean	Avg	5.223	4.569	3.363	1.383	1.056	0.834	0.423	0.597	1.171	2.143	3.531	4.638	2.402
flows	Low	1.317	1.879	1.428	0.481	0.237	0.110	0.078	0.019	0.116	0.069	0.442	2.405	1.640
(m ³ s ⁻¹)	High	9.701	8.826	7.477	2.240	3.300	2.491	1.095	1.386	6.671	6.878	6.238	8.122	3.760
Peak flow (m ³ s ⁻¹)		53.32	61.78	61.48	27.72	19.16	57.13	9.89	27.33	75.12	55.86	57.07	124.40	124.40
Runoff (mm)		124	99	80	32	25	19	10	14	27	51	81	110	673
Rainfall (mm)		154	112	104	55	68	75	73	85	98	104	133	139	1200

Factors affecting flow regime: GE
Station type: CC1982 runoff is 118% of previous mean
rainfall 105%**048001 Fowey at Trekeivesteps****1982**Measuring authority: SWWA
First year: 1969Grid reference: SX 227698
Level stn. (m OD) 187.86Catchment area (sq km): 36.8
Max alt. (m OD) 420**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.057	1.628	2.762	0.801	0.345	0.445	0.355	0.430	0.547	2.192	3.087	3.163	1.484
(m ³ s ⁻¹)	Peak	5.18	6.87	15.60	4.38	0.87	2.42	4.09	2.38	7.26	9.76	15.24	13.71	15.60
Runoff (mm)		150	107	201	58	25	31	28	31	39	160	217	230	1273
Rainfall (mm)		122	130	204	33	45	184	68	126	112	225	270	232	1760

Monthly and yearly statistics for previous record (Oct 1957 to Dec 1981—Incomplete or missing months total 0.8 years)

Mean	Avg	2.395	2.155	1.575	1.130	0.859	0.620	0.581	0.703	0.879	1.365	1.901	2.407	1.376
flows	Low	0.866	0.799	0.908	0.499	0.315	0.228	0.238	0.230	0.122	0.223	0.313	1.478	0.843
(m ³ s ⁻¹)	High	4.347	4.682	3.324	1.942	1.483	1.424	1.751	2.579	3.217	3.367	3.578	4.551	1.915
Peak flow (m ³ s ⁻¹)		31.08	31.57	20.68	15.01	9.39	18.32	16.29	21.51	27.65	26.34	34.28	38.75	38.75
Runoff (mm)		174	143	115	80	63	44	41	51	62	99	134	175	1180
Rainfall (mm)		200	136	132	96	101	91	112	123	137	161	180	204	1673

Factors affecting flow regime: SRPG
Station type: CC1982 runoff is 108% of previous mean
rainfall 105%**048004 Warleggan at Trengoffe****1982**Measuring authority: SWWA
First year: 1969Grid reference: SX 159674
Level stn. (m OD) 70.26Catchment area (sq km): 25.3
Max alt. (m OD): 308**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.260	1.005	1.421	0.544	0.288	0.309	0.279	0.240	0.269	1.166	1.775	1.688	0.854
(m ³ s ⁻¹)	Peak	2.17	2.40	3.64	1.43	0.45	0.91	1.39	0.89	1.59	3.87	5.73	4.38	6.73
Runoff (mm)		133	96	150	56	30	32	30	25	28	123	182	179	1064
Rainfall (mm)		104	116	168	25	38	170	60	107	97	225	249	209	1568

Monthly and yearly statistics for previous record (Oct 1969 to Dec 1981—Incomplete or missing months total 0.3 years)

Mean	Avg	1.506	1.570	1.123	0.698	0.513	0.422	0.334	0.357	0.482	0.664	0.960	1.371	0.830
flows	Low	0.744	0.855	0.805	0.489	0.310	0.216	0.169	0.118	0.208	0.208	0.233	0.907	0.643
(m ³ s ⁻¹)	High	2.584	2.908	1.588	1.068	0.808	0.904	0.888	0.583	1.677	1.557	1.696	1.949	1.228
Peak flow (m ³ s ⁻¹)		14.31	14.85	5.27	4.59	3.19	5.96	4.38	8.60	14.85	7.86	15.38	11.25	15.38
Runoff (mm)		159	151	119	72	54	43	35	38	49	70	98	145	1038
Rainfall (mm)		181	133	132	61	85	82	92	94	135	135	151	181	1462

Factors affecting flow regime: G
Station type: CC1982 runoff is 103% of previous mean
rainfall 107%**048005 Kenwyn at Truro****1982**Measuring authority: SWWA
First year: 1968Grid reference: SW 820450
Level stn. (m OD) 7.16Catchment area (sq km): 19.1
Max alt. (m OD): 152**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0.885	0.522	0.880	0.284	0.131	0.122	0.088	0.074	0.066	0.595	1.093	1.040	0.478
(m ³ s ⁻¹)	Peak	2.21	1.20	1.93	0.85	0.54	0.84	0.22	1.40	0.57	3.57	9.74	3.05	9.74
Runoff (mm)		121	66	121	36	18	17	12	10	9	83	148	148	788
Rainfall (mm)		120	93	137	26	45	132	32	89	71	202	201	160	1308

Monthly and yearly statistics for previous record (Oct 1968 to Dec 1981)

Mean	Avg	0.822	0.878	0.608	0.299	0.192	0.148	0.091	0.089	0.123	0.250	0.438	0.749	0.388
flows	Low	0.283	0.417	0.341	0.162	0.128	0.071	0.043	0.026	0.037	0.034	0.046	0.436	0.284
(m ³ s ⁻¹)	High	1.322	1.538	0.917	0.524	0.310	0.358	0.182	0.122	0.564	0.633	0.747	1.091	0.644
Peak flow (m ³ s ⁻¹)		5.88	7.19	5.74	2.93	1.41	3.71	2.79	1.99	4.10	5.94	8.61	13.35	13.35
Runoff (mm)		115	112	85	41	27	20	13	12	17	35	59	105	641
Rainfall (mm)		147	118	99	51	67	62	59	73	94	101	127	143	1141

Factors affecting flow regime: G
Station type: CC1982 runoff is 123% of previous mean
rainfall 115%

048011 Fowey at Restormel two**1982**Measuring authority: SWWA
First year: 1972Grid reference: SX 098624
Level stn. (m OD) 9.24Catchment area (sq km): 169.1
Max alt. (m OD): 420**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	8.709	6.326	10.730	2.793	1.191	1.388	1.335	1.065	1.305	8.849	15.450	12.300	5.953
(m ³ s ⁻¹)	Peak	18.36	15.05	33.57	9.01	1.96	5.00	7.07	3.89	10.32	28.00	61.60	29.93	61.60
Runoff (mm)		138	91	170	43	19	21	21	17	20	140	237	195	1111
Rainfall (mm)		108	123	183	32	43	162	58	101	105	223	253	223	1614

Monthly and yearly statistics for previous record (Nov 1972 to Dec 1981)

Mean	Avg.	8.674	10.020	6.982	3.744	2.492	1.838	1.201	1.308	2.789	5.260	5.522	9.941	4.960
flows	Low	3.901	4.907	4.075	2.062	1.359	0.750	0.575	0.343	0.723	0.617	0.921	5.796	3.647
(m ³ s ⁻¹)	High	17.330	21.780	12.130	6.063	4.875	4.916	1.857	2.368	10.490	11.720	9.708	14.260	7.440
Peak flow (m ³ s ⁻¹)		58.44	95.15	45.62	21.74	16.00	19.07	6.08	31.81	70.02	35.07	57.51	126.60	126.60
Runoff (mm)		137	144	111	57	39	28	19	21	43	83	85	157	926
Rainfall (mm)		165	145	171	65	84	81	100	88	123	130	132	214	1498

Factors affecting flow regime: SRPGEI
Station type: CC1982 runoff is 120% of previous mean
rainfall 108%**049001 Camel at Denby****1982**Measuring authority: SWWA
First year: 1964Grid reference: SX 017682
Level stn. (m OD) 4.61Catchment area (sq km): 208.8
Max alt. (m OD): 420**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	10.940	7.395	12.660	3.371	1.660	1.836	1.822	1.373	1.793	10.530	17.990	14.850	7.168
(m ³ s ⁻¹)	Peak	23.84	18.89	50.70	8.30	3.21	6.15	8.68	7.08	11.81	41.61	78.66	46.55	76.68
Runoff (mm)		140	86	162	42	21	23	23	18	22	135	223	188	1084
Rainfall (mm)		103	108	154	29	42	151	59	98	100	200	245	176	1466

Monthly and yearly statistics for previous record (Sep 1964 to Dec 1981)

Mean	Avg.	11.100	10.290	7.228	4.142	3.192	2.404	2.331	2.367	3.070	5.190	7.043	11.000	6.763
flows	Low	4.833	4.249	2.835	2.081	0.980	0.888	0.582	0.421	0.798	0.882	1.371	6.552	4.081
(m ³ s ⁻¹)	High	19.600	20.940	16.420	7.608	6.168	5.463	7.323	5.947	11.920	16.640	13.760	19.110	8.165
Peak flow (m ³ s ⁻¹)		65.19	80.21	94.75	35.42	23.32	40.02	40.59	45.14	125.80	92.14	79.29	227.90	227.90
Runoff (mm)		142	120	93	51	41	30	30	38	67	87	87	141	871
Rainfall (mm)		173	119	119	71	86	85	102	101	123	128	150	168	1426

Factors affecting flow regime: PGE
Station type: VA1982 runoff is 124% of previous mean
rainfall 103%**049002 Hayle at St Erth****1982**Measuring authority: SWWA
First year: 1968Grid reference: SW 549342
Level stn. (m OD) 7.00Catchment area (sq km): 48.9
Max alt. (m OD): 238**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	2.425	1.375	2.365	1.195	0.633	0.482	0.371	0.304	0.269	0.852	2.297	2.515	1.267
(m ³ s ⁻¹)	Peak	3.85	1.71	3.85	1.92	0.82	0.82	0.48	0.47	0.44	1.34	3.81	4.14	4.14
Runoff (mm)		133	68	130	63	35	26	20	17	14	47	122	138	811
Rainfall (mm)		105	97	145	38	43	141	31	70	76	194	177	160	1277

Monthly and yearly statistics for previous record (Oct 1957 to Dec 1981—incomplete or missing months total 9.3 years)

Mean	Avg.	1.820	2.158	1.700	1.008	0.625	0.489	0.410	0.354	0.374	0.467	0.845	1.497	0.973
flows	Low	0.746	0.863	0.810	0.573	0.475	0.335	0.237	0.167	0.204	0.179	0.181	0.503	0.663
(m ³ s ⁻¹)	High	2.849	3.426	2.582	1.641	0.818	0.856	1.083	0.743	1.067	1.140	1.809	2.473	1.246
Peak flow (m ³ s ⁻¹)		6.20	6.73	5.83	3.07	1.27	1.72	1.99	2.27	1.88	2.32	3.00	6.31	6.73
Runoff (mm)		100	108	93	53	34	26	22	19	20	26	45	82	628
Rainfall (mm)		129	108	102	60	66	61	67	79	93	108	125	139	1137

Factors affecting flow regime: G
Station type: CC1982 runoff is 129% of previous mean
rainfall 112%**050002 Torridge at Torrington****1982**Measuring authority: SWWA
First year: 1962Grid reference: SS 500185
Level stn. (m OD) 13.95Catchment area (sq km): 663.0
Max alt. (m OD): 621**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	31.510	19.130	41.090	5.522	1.869	3.845	3.284	2.668	6.007	28.480	47.140	48.430	19.746
(m ³ s ⁻¹)	Peak	167.10	104.50	180.10	51.69	3.62	28.30	23.54	10.48	49.72	110.30	244.10	265.80	265.80
Runoff (mm)		127	70	166	22	8	15	13	11	23	115	184	188	942
Rainfall (mm)		112	94	168	29	35	131	49	104	92	164	203	181	1362

Monthly and yearly statistics for previous record (Oct 1962 to Dec 1981)

Mean	Avg.	27.380	25.480	18.610	10.280	8.219	5.155	4.935	4.777	7.542	13.780	24.580	29.340	14.980
flows	Low	5.018	4.695	8.703	3.082	1.594	1.136	0.443	0.253	0.954	0.668	3.788	10.270	8.988
(m ³ s ⁻¹)	High	45.050	47.590	51.280	28.120	19.250	14.960	21.540	14.260	45.910	49.230	49.410	64.530	21.036
Peak flow (m ³ s ⁻¹)		271.80	294.40	535.60	153.00	107.20	181.30	310.60	228.50	415.00	225.00	313.20	730.00	730.00
Runoff (mm)		111	94	75	40	33	20	20	19	29	58	96	119	712
Rainfall (mm)		121	94	97	65	76	73	78	82	96	103	133	125	1143

Factors affecting flow regime: SRPGEI
Station type: VA1982 runoff is 132% of previous mean
rainfall 119%

052003 Halse Water at Bishops Hull**1982**Measuring authority WWA
First year 1961Grid reference ST 206253
Level stn. (m OD) 16.20Catchment area (sq km): 87.8
Max alt. (m OD): 391**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2 708	1 697	2 474	1 120	0 627	0 467	0 388	0 279	0 333	0 627	2 267	3 175	1 347
(m ³ s ⁻¹)	Peak	6 26	4 84	10 85	2 13	0 97	0 89	1 07	0 49	0 85	2 21	9 01	8 02	10 85
Runoff (mm)		83	47	75	33	19	14	12	9	10	19	67	97	484
Rainfall (mm)		71	55	113	16	25	80	73	50	77	101	132	117	910

Monthly and yearly statistics for previous record (Dec 1961 to Dec 1981—incomplete or missing months total 0.2 years)

Mean	Avg	1 803	2 080	1 665	1 193	0 954	0 690	0 582	0 516	0 491	0 769	1 089	1 505	1 107
flows	Low	0 453	0 639	0 578	0 534	0 510	0 320	0 196	0 179	0 250	0 284	0 340	0 592	0 488
(m ³ s ⁻¹)	High	3 165	4 181	3 046	2 146	1 380	1 079	1 752	1 367	1 189	3 271	2 201	3 448	1 414
Peak flow (m ³ s ⁻¹)		19 98	19 33	11 27	15 91	6 09	4 21	28 32	3 79	12 05	16 92	15 50	24 07	28 32
Runoff (mm)		55	58	51	35	29	20	18	16	14	23	32	46	388
Rainfall (mm)		93	77	77	53	64	56	54	67	75	78	87	97	878

Factors affecting flow regime:
Station type VA1982 runoff is 122% of previous mean
rainfall 104%**052006 Yeo at Pen Mill****1982**Measuring authority WWA
First year 1962Grid reference ST 573162
Level stn. (m OD) 23.85Catchment area (sq km): 213.1
Max alt. (m OD) 252**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	4 360	4 179	6 394	2 001	0 787	0 778	0 957	0 464	0 596	4 713	7 338	5 823	3 189
(m ³ s ⁻¹)	Peak	11 09	31.20	57.33	7 07	2 36	5 38	13 31	1 17	4 76	31 55	37 29	36 15	67.33
Runoff (mm)		55	47	80	24	10	9	12	8	7	59	89	73	473
Rainfall (mm)		51	69	122	25	40	127	70	59	72	147	151	107	1036

Monthly and yearly statistics for previous record (Nov 1963 to Dec 1981)

Mean	Avg	5 252	4 817	3 844	1 757	1 652	1 078	0 661	0 716	1 043	2 130	3 328	4 482	2 665
flows	Low	0 485	1 168	0 909	0 532	0 358	0 229	0 193	0 168	0 316	0 372	0 492	1 079	1 093
(m ³ s ⁻¹)	High	8 812	10 060	7 060	4 223	4 887	2 358	1 909	1 607	5 174	9 808	12 800	9 099	3 694
Peak flow (m ³ s ⁻¹)		99 93	119 30	41 90	21 80	130 00	32 57	35 74	21 95	27 64	54 94	71 25	138 90	138 90
Runoff (mm)		68	55	48	21	21	13	8	9	13	27	40	56	378
Rainfall (mm)		96	76	79	46	71	59	56	66	80	75	88	97	889

Factors affecting flow regime
Station type C VA1982 runoff is 125% of previous mean
rainfall 116%**052007 Parrett at Chiselborough****1982**Measuring authority WWA
First year 1966Grid reference ST 461144
Level stn. (m OD) 20.72Catchment area (sq km): 74.8
Max alt. (m OD): 219**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1 692	1 629	2 884	0 645	0 462	0 567	0 548	0 341	0 397	2 628	3 789	2 814	1 533
(m ³ s ⁻¹)	Peak		22 95	27 46	1 50	1 03	9 86	5 92	0 66	1 60	27 22	29 12	25 36	
Runoff (mm)		61	53	103	22	17	20	20	12	14	94	131	101	647
Rainfall (mm)		52	74	129	22	34	109	71	57	78	159	162	107	1048

Monthly and yearly statistics for previous record (Aug 1966 to Dec 1981)

Mean	Avg	2 295	2 096	1 662	0 728	0 735	0 524	0 360	0 341	0 477	1 066	1 141	1 891	1 107
flows	Low	0 258	0 593	0 523	0 285	0 206	0 130	0 106	0 090	0 193	0 186	0 218	0 523	0 564
(m ³ s ⁻¹)	High	4 019	3 865	3 055	1 581	1 718	1 053	0 921	0 591	2 225	4 819	2 601	3 917	1 607
Peak flow (m ³ s ⁻¹)		36 38	18 84	18 55	12 34	21 73	12 81	16 14	7 92	15 29	24 58	114 30	44 94	114 30
Runoff (mm)		82	68	60	25	26	18	13	12	17	38	40	68	467
Rainfall (mm)		106	83	84	41	75	65	55	69	82	84	81	101	928

Factors affecting flow regime N
Station type C1982 runoff is 139% of previous mean
rainfall 113%**053004 Chew at Compton Dando****1982**Measuring authority WWA
First year 1958Grid reference ST 648647
Level stn. (m OD) 16.76Catchment area (sq km): 129.5
Max alt. (m OD): 305**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2 672	1 495	4 210	0 958	0 723	0 739	0 587	0 477	0 495	0 796	2 530	2 682	1 630
(m ³ s ⁻¹)	Peak	7 30	6 22	50 00	2 88	1 31	7 51	1 35	1 20	1 01	7 65	20 18	30 09	50 00
Runoff (mm)		55	28	87	19	15	15	12	10	10	16	51	55	374
Rainfall (mm)		75	66	158	30	42	171	43	85	91	95	172	134	1162

Monthly and yearly statistics for previous record (Oct 1958 to Dec 1981—incomplete or missing months total 1.0 years)

Mean	Avg	1 701	1 702	1 342	0 955	0 759	0 583	0 459	0 431	0 560	0 870	1 138	1 665	1 007
flows	Low	0 444	0 557	0 416	0 469	0 057	0 288	0 251	0 195	0 232	0 302	0 272	0 626	0 545
(m ³ s ⁻¹)	High	3 765	4 166	2 793	2 185	2 215	1 211	0 811	0 638	2 135	3 251	3 898	5 017	1 767
Peak flow (m ³ s ⁻¹)		25 49	48 99	20 93	14 19	67 50	13 00	6 23	6 09	59 26	49 56	38 83	63 78	67 50
Runoff (mm)		35	32	28	19	16	12	9	9	11	17	23	34	245
Rainfall (mm)		98	73	79	61	71	67	73	86	93	87	102	112	1000

Factors affecting flow regime SRPGEI
Station type FL1982 runoff is 152% of previous mean
rainfall 116%

053007 Frome(Somerset) at Tellisford**1982**Measuring authority: WWA
First year: 1961Grid reference: ST 805564
Level stn. (m OD) 35.05Catchment area (sq km): 261.6
Max alt. (m OD): 305

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	7.294	4.722	10.030	3.137	1.463	1.290	2.074	1.020	1.093	4.183	8.608	9.769	4.557
(m ³ s ⁻¹)	Peak	22.91	15.53	56.09	12.81	2.40	4.56	42.76	2.05	4.25	29.98	41.28	53.28	56.09
Runoff (mm)		75	44	103	31	15	13	21	10	11	43	85	100	551
Rainfall (mm)		62	60	147	30	36	120	65	78	80	105	150	128	1061

Monthly and yearly statistics for previous record (Sep 1961 to Dec 1981)

Mean	Avg	6.291	6.461	5.716	3.523	2.775	1.915	1.475	1.514	1.816	2.515	4.333	6.199	3.708
flows	Low	1.684	2.072	1.938	1.510	0.843	0.518	0.329	0.290	0.649	0.612	0.962	2.795	2.334
(m ³ s ⁻¹)	High	10.440	12.460	12.690	8.314	6.010	4.812	4.931	4.605	7.459	8.841	10.730	14.860	4.885
Peak flow (m ³ s ⁻¹)		54.37	64.75	68.83	57.51	98.80	37.52	108.10	82.49	71.03	40.24	84.58	83.64	108.10
Runoff (mm)		64	60	59	35	28	19	15	18	27	43	63	63	447
Rainfall (mm)		91	73	87	61	77	85	65	81	89	76	95	102	962

Factors affecting flow regime: PGEI
Station type: FL1982 runoff is 123% of previous mean
rainfall 110%**053009 Wellow Brook at Wellow****1982**Measuring authority: WWA
First year: 1966Grid reference: ST 741581
Level stn. (m OD) 43.74Catchment area (sq km): 72.6
Max alt. (m OD) 220

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.598	1.628	3.378	1.099	0.498	0.575	0.537	0.372	0.438	1.144	2.908	3.277	1.538
(m ³ s ⁻¹)	Peak	5.12	2.66	12.65	1.79	0.98	2.00	4.05	1.03	1.67	4.18	10.10	13.48	13.48
Runoff (mm)		96	54	125	39	18	21	20	14	18	42	104	121	669
Rainfall (mm)		72	64	152	30	39	159	49	73	82	96	181	132	1109

Monthly and yearly statistics for previous record (Jan 1966 to Dec 1981)

Mean	Avg	2.119	2.409	1.936	1.198	0.958	0.667	0.484	0.399	0.506	0.919	1.366	2.002	1.242
flows	Low	0.641	0.895	0.688	0.600	0.328	0.244	0.157	0.119	0.199	0.224	0.274	1.104	0.762
(m ³ s ⁻¹)	High	3.142	4.429	3.708	2.111	1.907	1.306	1.680	0.727	2.008	2.686	2.916	3.542	1.561
Peak flow (m ³ s ⁻¹)		15.11	22.36	13.71	11.08	23.16	6.84	29.54	3.79	15.07	7.88	14.59	24.43	29.54
Runoff (mm)		78	81	71	43	35	24	18	15	18	34	49	74	540
Rainfall (mm)		98	92	91	60	81	69	65	79	94	85	99	105	1018

Factors affecting flow regime: PGEI
Station type: FL1982 runoff is 124% of previous mean
rainfall 109%**053018 Avon at Bathford****1982**Measuring authority: WWA
First year: 1969Grid reference: ST 786671
Level stn. (m OD) 18.00Catchment area (sq km): 1552.0
Max alt. (m OD): 305

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	38.660	22.380	47.940	14.470	7.295	7.083	6.184	4.286	4.734	13.780	35.060	43.670	20.460
(m ³ s ⁻¹)	Peak	93.63	53.07	193.30	30.28	11.27	19.37	46.19	13.16	11.03	45.41	107.10	152.70	193.30
Runoff (mm)		87	35	83	24	13	12	11	7	8	24	59	75	417
Rainfall (mm)		64	46	120	31	30	151	36	69	74	88	130	103	942

Monthly and yearly statistics for previous record (Dec 1969 to Dec 1981)

Mean	Avg	29.910	34.050	27.560	16.260	12.380	10.610	6.199	6.037	7.149	11.130	17.150	27.460	17.079
flows	Low	9.225	11.370	10.080	7.718	5.047	3.898	2.411	1.715	3.748	3.117	4.407	12.120	10.361
(m ³ s ⁻¹)	High	45.300	64.340	54.220	22.690	25.870	30.110	9.955	10.600	25.450	28.180	33.170	48.270	22.133
Peak flow (m ³ s ⁻¹)		146.30	226.50	171.00	119.60	227.00	165.60	54.93	64.71	191.90	88.98	163.10	300.50	300.50
Runoff (mm)		52	53	48	27	21	18	11	10	12	19	29	47	347
Rainfall (mm)		39	44	163	38	89	39	63	18	148	135	53	121	950

Factors affecting flow regime: RPGE
Station type: VA1982 runoff is 120% of previous mean
rainfall 99%**054002 Avon at Evesham****1982**Measuring authority: STWA
First year: 1937Grid reference: SP 040438
Level stn. (m OD) 19.50Catchment area (sq km): 2210.0
Max alt. (m OD) 320

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	48.540	19.420	46.300	13.020	7.977	10.810	7.083	7.136	7.560	11.700	23.460	29.360	19.364
(m ³ s ⁻¹)	Peak	189.60	36.85	170.70	28.30	11.35	29.93	41.37	20.91	18.68	22.35	60.29	108.70	189.60
Runoff (mm)		59	21	56	15	10	13	9	9	9	14	28	36	277
Rainfall (mm)		53	33	85	24	25	106	38	66	63	63	69	52	675

Monthly and yearly statistics for previous record (Dec 1936 to Dec 1981)

Mean	Avg	27.290	28.210	22.380	14.130	11.030	7.929	6.450	6.624	6.730	9.260	17.170	22.230	14.888
flows	Low	5.140	4.869	2.261	3.240	2.220	1.935	2.253	2.038	1.970	2.484	2.677	3.548	6.895
(m ³ s ⁻¹)	High	73.520	77.930	75.600	35.160	35.980	27.380	42.230	16.100	24.210	45.410	55.910	65.160	25.025
Peak flow (m ³ s ⁻¹)		242.40	202.50	224.80	138.70	132.50	178.70	371.00	96.84	111.80	140.70	142.70	262.80	371.00
Runoff (mm)		33	31	27	17	13	9	8	8	8	11	20	27	213
Rainfall (mm)		60	44	48	42	55	52	58	72	55	57	64	61	688

Factors affecting flow regime: PGEI
Station type: VA1982 runoff is 130% of previous mean
rainfall 101%

055008 Wye at Cefn Brwyn**1982**Measuring authority: IH
First year: 1951Grid reference: SN 829838
Level stn. (m OD) 341.01Catchment area (sq km): 10.4
Max alt. (m OD): 752**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	1 178	0 827	0 991	0 170	0 080	0 291	0 131	0 638	0 526	0 671	1 355	1 206	0 656
(m ³ s ⁻¹)	Peak	12.41	5.29	9.03	1.73	0.28	6.35	1.21	13.81	10.22	8.60	10.88	14.72	14.72
Runoff (mm)		303	146	255	42	21	73	34	164	131	173	338	311	1990
Rainfall (mm)		248	161	301	58	68	158	48	282	164	189	381	347	2403

Monthly and yearly statistics for previous record (Aug 1961 to Dec 1981—incomplete or missing months total 2.6 years)

Mean	Avg.	0 901	0 773	0 645	0 538	0 429	0 345	0 465	0 581	0 675	0 782	1 038	1 092	0 688
flows	Low	0 519	0 158	0 290	0 084	0 054	0 074	0 095	0 036	0 050	0 097	0 378	0 198	0 447
(m ³ s ⁻¹)	High	1 398	1 486	1 735	1 312	1 144	0 844	1 264	1 478	1 478	2 031	1 600	2 655	0 994
Peak flow (m ³ s ⁻¹)		18.04	19.20	16.97	19.12	17.89	25.49	19.11	48.87	16.93	24.32	29.15	32.00	48.87
Runoff (mm)		232	181	166	134	110	86	120	150	168	201	259	281	2088
Rainfall (mm)		243	175	187	160	145	141	165	180	198	233	277	303	2407

Factors affecting flow regime:
Station type: CC1982 runoff is 95% of previous mean
rainfall 100%**055012 Irjon at Cilmerly****1982**Measuring authority: WELS
First year: 1966Grid reference: SN 995507
Level stn. (m OD) 136.29Catchment area (sq km): 244.2
Max alt. (m OD): 645**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	22 250	9 568	18 970	3 918	1 301	3 744	2 060	6 184	9 964	18 190	28 000	25 640	12 482
(m ³ s ⁻¹)	Peak													
Runoff (mm)		244	95	208	42	14	40	23	68	106	200	297	281	1617
Rainfall (mm)		214	114	234	50	59	137	50	154	173	179	268	242	1874

Monthly and yearly statistics for previous record (Oct 1966 to Dec 1981—incomplete or missing months total 1.2 years)

Mean	Avg.	15 540	13 300	11 200	6 284	5 822	3 581	2 639	4 475	6 592	10 870	14 660	17 120	9 311
flows	Low	6 295	6 251	5 134	1 359	0 806	0 725	0 671	0 248	1 177	1 217	9 149	8 730	6 165
(m ³ s ⁻¹)	High	25 570	23 750	31 790	16 010	10 650	9 737	5 820	8 124	18 200	29 760	29 070	29 320	11 769
Peak flow (m ³ s ⁻¹)		174.10	196.20	211.50	122.70	88.82	116.10	71.01	249.50	136.00	219.00	185.90	256.90	266.90
Runoff (mm)		170	133	123	67	62	38	29	49	70	119	156	188	1203
Rainfall (mm)		185	139	144	88	100	82	88	107	140	157	186	193	1609

Factors affecting flow regime:
Station type: FVVA1982 runoff is 134% of previous mean
rainfall 116%**055014 Lugg at Byton****1982**Measuring authority: WELS
First year: 1966Grid reference: SO 364647
Level stn. (m OD) 124.07Catchment area (sq km): 203.3
Max alt. (m OD): 660**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	11 270	4 597	7 621	3 202	1 669	1 678	1 369	1 166	2 464	5 206	8 115	9 444	4 817
(m ³ s ⁻¹)	Peak													
Runoff (mm)		149	55	100	41	22	21	18	15	31	69	103	124	749
Rainfall (mm)		117	49	132	31	41	159	28	96	141	101	140	132	1187

Monthly and yearly statistics for previous record (Oct 1966 to Dec 1981)

Mean	Avg.	7 043	7 168	6 401	3 899	3 308	2 083	1 490	1 164	1 325	2 777	4 166	6 122	3 883
flows	Low	2 991	2 630	2 947	2 016	1 202	0 772	0 557	0 414	0 678	0 657	1 219	2 878	2 321
(m ³ s ⁻¹)	High	10 180	12 870	13 980	7 108	7 994	3 989	5 253	1 992	3 079	7 962	8 636	10 350	4 964
Peak flow (m ³ s ⁻¹)		54.27	37.53	33.25	16.93	45.58	10.72	26.18	9.52	8.37	28.51	19.98	37.49	54.27
Runoff (mm)		93	86	84	47	44	27	20	15	17	37	53	81	603
Rainfall (mm)		113	92	94	58	84	59	60	73	95	88	97	111	1024

Factors affecting flow regime:
Station type: FVVA1982 runoff is 124% of previous mean
rainfall 114%**055023 Wye at Redbrook****1982**Measuring authority: WELS
First year: 1969Grid reference: SO 528110
Level stn. (m OD) 9.20Catchment area (sq km): 4010.0
Max alt. (m OD): 752**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	214 400	82 980	159 700	43 480	21 150	31 760	26 860	27 410	54 130	93 210	161 400	172 400	90 740
(m ³ s ⁻¹)	Peak													
Runoff (mm)		143	50	107	28	14	21	18	18	35	62	104	115	716
Rainfall (mm)		130	58	130	31	34	147	45	112	125	103	143	130	1188

Monthly and yearly statistics for previous record (Oct 1969 to Dec 1981)

Mean	Avg.	122 100	131 600	108 400	59 710	41 780	31 750	20 770	24 240	28 380	48 840	83 980	114 300	67 700
flows	Low	56 830	46 880	37 490	25 450	16 470	10 960	7 433	5 178	14 870	12 230	36 260	46 890	45 689
(m ³ s ⁻¹)	High	200 700	234 000	245 200	100 200	71 880	63 490	30 850	40 110	74 490	133 800	163 600	204 100	84 075
Peak flow (m ³ s ⁻¹)		453.30	640.60	671.30	302.60	247.40	199.80	77.68	373.20	261.30	341.40	413.70	768.90	768.90
Runoff (mm)		82	80	72	39	28	21	14	16	18	33	54	76	533
Rainfall (mm)		118	90	93	58	73	61	55	76	91	77	104	113	1005

Factors affecting flow regime: S P E
Station type: VA1982 runoff is 134% of previous mean
rainfall 118%

056002 Ebbw at Rhiwderyn**1982**

Measuring authority: WELS

Grid reference: ST 259889

Catchment area (sq km): 216.5

First year: 1957

Level stn. (m OD) 30.57

Max alt. (m OD): 610

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	17.490	8.293	16.550	5.252	2.566	3.105	2.605	3.670	6.617	16.750	25.170	18.560	10.552
(m ³ s ⁻¹): Peak		50.53	37.88	72.74	39.11	4.44	14.31	10.55	54.70	81.33	87.92	125.90	92.94	126.90
Runoff (mm)		216	93	205	63	32	37	32	45	79	207	301	230	1541
Rainfall (mm)		201	116	219	51	40	170	44	156	177	204	265	215	1858

Monthly and yearly statistics for previous record (Oct 1957 to Dec 1981—incomplete or missing months total 0.1 years)

Mean	Avg	11.510	10.440	8.547	5.932	4.785	3.465	2.780	2.918	4.395	7.413	8.771	11.890	6.890
Flows	Low	3.050	3.324	2.957	2.386	2.028	1.628	1.263	1.096	1.269	1.317	2.857	3.345	3.492
(m ³ s ⁻¹): High		19.820	20.440	25.000	11.060	9.545	6.809	9.019	5.295	11.940	23.210	19.940	29.440	9.629
Peak flow (m ³ s ⁻¹)		123.60	125.60	104.80	55.22	32.78	37.95	66.26	72.07	123.90	201.60	107.80	246.50	248.50
Runoff (mm)		142	118	106	71	59	41	34	36	53	92	105	147	1004
Rainfall (mm)		160	120	117	91	98	81	86	101	136	139	152	176	1457

Factors affecting flow regime: S G

Station type: FVVA

1982 runoff is 153% of previous mean
rainfall 128%**056007 Senni at Pont Hen Hafod****1982**

Measuring authority: WELS

Grid reference: SN 928255

Catchment area (sq km): 19.9

First year: 1967

Level stn. (m OD) 219.60

Max alt. (m OD): 663

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1.975	1.181	2.282	0.455	0.187	0.288	0.194	0.568	1.173	1.835	2.416	1.990	1.210
(m ³ s ⁻¹): Peak		14.65	17.29	25.57	1.45	0.69	3.69	0.64	10.73	14.43	13.32	24.18	23.65	26.67
Runoff (mm)		266	144	307	58	22	38	26	76	153	247	315	268	1921
Rainfall (mm)		214	179	314	82	60	143	39	194	239	300	331	305	2380

Monthly and yearly statistics for previous record (Dec 1967 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg	1.546	1.314	1.236	0.655	0.598	0.421	0.299	0.482	0.714	0.997	1.533	1.555	0.942
Flows	Low	0.567	0.707	0.509	0.168	0.121	0.111	0.095	0.066	0.181	0.171	0.772	0.827	0.587
(m ³ s ⁻¹): High		3.228	2.478	3.693	1.334	1.176	1.077	0.605	0.916	2.111	2.058	2.336	3.224	1.260
Peak flow (m ³ s ⁻¹)		24.71	21.85	33.47	20.32	14.17	19.18	10.78	24.56	20.34	30.73	32.97	48.83	48.83
Runoff (mm)		208	161	166	85	80	55	40	62	93	134	200	209	1494
Rainfall (mm)		232	159	178	93	123	88	98	122	171	181	215	200	1868

Factors affecting flow regime: N

Station type: C

1982 runoff is 129% of previous mean
rainfall 128%**056013 Yscir at Pontaryscir****1982**

Measuring authority: WELS

Grid reference: SO 003304

Catchment area (sq km): 62.8

First year: 1972

Level stn. (m OD) 161.18

Max alt. (m OD): 474

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	4.366	1.883	4.005	0.945	0.372	0.527	0.544	0.736	2.428	2.764	4.643	4.336	2.286
(m ³ s ⁻¹): Peak		33.31	9.17	40.55	5.97	0.63	2.87	2.90	4.00	21.44	15.94	20.46	20.35	40.56
Runoff (mm)		186	73	171	39	18	22	23	31	100	118	192	185	1166
Rainfall (mm)		195	98	207	42	45	136	53	144	198	147	241	198	1704

Monthly and yearly statistics for previous record (May 1972 to Dec 1981—incomplete or missing months total 0.2 years)

Mean	Avg	2.995	2.967	2.760	1.151	0.998	0.725	0.469	0.582	1.065	1.825	2.929	3.486	1.826
Flows	Low	1.146	1.868	1.170	0.431	0.289	0.214	0.186	0.104	0.283	0.214	1.520	2.198	1.288
(m ³ s ⁻¹): High		5.578	4.959	6.303	1.863	1.957	1.788	1.117	1.250	3.947	4.182	4.902	6.324	2.465
Peak flow (m ³ s ⁻¹)		26.43	31.78	39.41	12.19	11.92	74.33	11.06	28.81	21.41	26.86	30.35	59.93	74.33
Runoff (mm)		128	115	118	48	43	30	20	25	44	78	121	149	917
Rainfall (mm)		122	124	181	59	84	69	81	75	128	149	160	197	1409

Factors affecting flow regime: N

Station type: C

1982 runoff is 126% of previous mean
rainfall 121%**057005 Taff at Pontypridd****1982**

Measuring authority: WELS

Grid reference: ST 079897

Catchment area (sq km): 454.8

First year: 1968

Level stn. (m OD) 45.15

Max alt. (m OD): 886

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	38.730	21.410	41.020	11.730	5.191	6.505	5.819	9.893	19.330	31.900	47.460	40.850	23.320
(m ³ s ⁻¹): Peak		157.90	166.90	206.80	143.40	10.18	20.88	28.33	107.90	125.00	172.30	224.10	278.90	278.90
Runoff (mm)		228	114	242	67	31	37	34	58	110	188	270	241	1620
Rainfall (mm)		261	154	241	67	47	148	45	189	223	253	309	275	2212

Monthly and yearly statistics for previous record (Oct 1970 to Dec 1981)

Mean	Avg	27.790	26.260	24.300	11.880	9.837	8.053	5.972	8.805	12.380	16.400	26.490	29.890	17.300
Flows	Low	11.800	12.700	10.800	5.287	4.731	3.618	2.989	2.287	4.745	3.639	11.030	14.100	10.279
(m ³ s ⁻¹): High		53.460	48.500	72.660	22.230	19.680	19.540	11.030	19.000	41.590	39.380	47.780	60.590	22.610
Peak flow (m ³ s ⁻¹)		267.10	219.00	365.10	126.80	112.80	124.60	86.21	210.30	279.70	231.80	335.70	652.00	652.00
Runoff (mm)		164	141	143	68	58	46	35	52	71	97	151	176	1200
Rainfall (mm)		210	156	176	82	106	88	89	122	172	153	205	216	1776

Factors affecting flow regime: S E1

Station type: FVVA

1982 runoff is 135% of previous mean
rainfall 125%

057008 Rhymney at Llanederyn**1982**Measuring authority: WELS
First year: 1972Grid reference: ST 225821
Level stn. (m OD) 11.78Catchment area (sq km) 178.7
Max alt. (m OD) 617**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	12 390	8 075	13 120	3 783	1 598	1 950	1 406	2 253	4 407	9 342	15 430	13 890	7 135
(m ³ s ⁻¹)	Peak	47 74	38 91	81 72	31 17	3 03	8 98	5 72	33 07	54 53	48 07	92 69	103 40	103 40
Runoff (mm)		186	82	197	55	24	28	21	34	64	140	224	208	1262
Rainfall (mm)		174	107	179	46	36	133	37	141	159	190	246	208	1656

Monthly and yearly statistics for previous record (Jan 1973 to Dec 1981)

Mean	Avg	7 419	8 354	7 696	3 423	2 734	1 844	1 400	1 920	3 757	5 167	8 840	8 243	4 884
flows	Low	3 313	3 199	3 064	1 841	1 302	0 873	0 602	0 571	0 914	0 748	2 355	3 218	2 903
(m ³ s ⁻¹)	High	12 830	15 620	20 960	5 079	6 167	4 604	2 332	3 812	11 500	13 700	12 560	15 730	6 679
Peak flow (m ³ s ⁻¹)		79 89	72 22	105 80	23 12	21 59	32 92	27 39	79 27	101 60	64 27	85 42	147 30	147 30
Runoff (mm)		111	114	115	50	41	27	21	29	54	77	99	124	862
Rainfall (mm)		138	126	136	55	81	56	70	90	155	120	138	156	1321

Factors affecting flow regime: P E
Station type: FVVA1982 runoff is 146% of previous mean
rainfall 125%**058001 Ogmore at Bridgend****1982**Measuring authority: WELS
First year: 1962Grid reference: SS 904794
Level stn. (m OD) 13.80Catchment area (sq km) 158.0
Max alt. (m OD) 568**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	11 250	6 834	11 280	4 208	1 373	1 399	1 246	1 967	5 523	11 260	14 180	13 690	7 018
(m ³ s ⁻¹)	Peak	38 11	42 70	80 98	66 76	6 65	8 22	3 10	19 17	50 56	66 58	48 97	75 14	80 98
Runoff (mm)		191	105	191	69	23	23	21	33	91	191	233	232	1402
Rainfall (mm)		182	130	191	67	48	121	36	157	169	234	260	270	1665

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981)

Mean	Avg	9 270	7 944	8 587	4 527	4 212	3 391	3 115	3 832	4 787	6 672	9 325	10 280	6 155
flows	Low	2 584	2 343	3 606	1 603	1 228	0 908	1 002	0 847	1 409	1 294	4 101	4 217	3 955
(m ³ s ⁻¹)	High	16 850	15 440	23 080	8 268	6 884	7 628	8 748	8 132	16 920	20 800	21 810	27 710	8 236
Peak flow (m ³ s ⁻¹)		115 00	96 84	168 00	59 75	41 91	111 60	110 70	83 74	152 00	117 20	146 00	155 20	168 00
Runoff (mm)		157	123	112	74	71	56	53	65	79	113	153	174	1229
Rainfall (mm)		181	132	139	96	120	108	115	127	162	162	197	199	1738

Factors affecting flow regime: P E I
Station type: FVVA1982 runoff is 114% of previous mean
rainfall 107%**058006 Mellte at Pontneathvaughan****1982**Measuring authority: WELS
First year: 1971Grid reference: SN 915082
Level stn. (m OD) 29.10Catchment area (sq km) 65.8
Max alt. (m OD) 734**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	5 634	3 256	5 742	1 392	0 470	0 876	0 677	1 601	3 408	4 952	7 240	5 990	3 437
(m ³ s ⁻¹)	Peak	82 30	41 58	53 77	24 32	0 89	7 84	2 11	22 41	81 01	47 63	56 86	51 73	82 30
Runoff (mm)		229	120	234	55	19	35	28	65	134	202	285	244	1649
Rainfall (mm)		270	190	288	69	61	165	49	218	243	299	340	305	2497

Monthly and yearly statistics for previous record (Oct 1971 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg	4 327	4 071	3 929	1 872	1 693	1 095	1 000	1 427	2 410	2 719	4 684	4 968	2 844
flows	Low	1 932	2 567	1 442	0 497	0 394	0 322	0 318	0 248	0 562	0 548	2 859	2 641	1 985
(m ³ s ⁻¹)	High	8 274	7 231	10 670	3 812	3 184	3 559	2 608	3 357	6 876	6 305	7 875	8 739	3 814
Peak flow (m ³ s ⁻¹)		54 82	66 12	72 93	39 02	21 45	32 54	39 14	58 52	47 71	57 57	79 67	127 60	127 60
Runoff (mm)		176	151	160	74	69	43	41	58	95	111	185	202	1364
Rainfall (mm)		226	167	193	93	118	98	103	133	179	169	236	238	1953

Factors affecting flow regime: S P
Station type: FVVA1982 runoff is 121% of previous mean
rainfall 128%**059001 Tawe at Ynys Tanglws****1982**Measuring authority: WELS
First year: 1957Grid reference: SS 685998
Level stn. (m OD) 9.31Catchment area (sq km) 227.7
Max alt. (m OD) 802**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	17 080	12 970	21 210	5 288	1 954	2 875	2 170	5 845	14 360	21 600	23 970	22 690	12 668
(m ³ s ⁻¹)	Peak	133 70	191 70	215 70	108 70	5 38	24 97	4 30	88 46	221 50	201 20	211 00	233 50	233 50
Runoff (mm)		201	138	249	60	23	33	26	69	164	254	273	267	1756
Rainfall (mm)		258	157	227	58	50	136	36	161	254	302	272	295	2204

Monthly and yearly statistics for previous record (Oct 1957 to Dec 1981—incomplete or missing months total 0.7 years)

Mean	Avg	18 080	14 000	11 040	8 457	7 381	4 922	5 157	7 224	9 932	12 720	16 530	17 650	11 083
flows	Low	1 479	2 445	3 175	1 571	1 650	1 354	1 311	1 280	0 574	2 587	8 358	3 931	7 613
(m ³ s ⁻¹)	High	36 580	29 040	33 830	15 370	17 980	15 960	9 480	14 200	26 290	43 430	33 320	43 650	15 158
Peak flow (m ³ s ⁻¹)		275 10	322 80	245 60	188 60	147 50	214 10	131 90	261 80	286 00	314 30	290 60	461 30	461 30
Runoff (mm)		213	150	130	96	87	56	61	85	113	150	188	208	1536
Rainfall (mm)		197	140	138	113	118	108	117	136	168	182	204	213	1834

Factors affecting flow regime: GEI
Station type: VA1982 runoff is 114% of previous mean
rainfall 120%

060003 Taf at Clog-y-fran**1982**Measuring authority: WELS
First year: 1965Grid reference: SN 238160
Level stn. (m OD) 7.01Catchment area (sq km): 217.3
Max alt. (m OD): 385**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	13 800	10 740	13 700	3 466	1 437	1 245	1 716	1 011	5 039	18 110	18 940	16 500	8 767
(m ³ s ⁻¹)	Peak	40 61	45 17	54 12	17 36	3 79	10 42	2 81	3 93	37 10	77 32	55 43	49 68	77 32
Runoff (mm)		170	120	169	41	18	15	15	12	60	223	226	203	1272
Rainfall (mm)		141	145	165	42	36	148	44	99	181	238	235	209	1681

Monthly and yearly statistics for previous record (Oct 1965 to Dec 1981—incomplete or missing months total 0.8 years)

Mean	Avg	12 840	11 740	8 547	5 457	4 122	2 810	1 821	2 328	3 905	9 160	11 330	13 670	7 293
flows	Low	4 835	5 454	3 796	2 267	1 441	0 814	0 527	0 363	0 983	1 018	4 587	9 027	4 672
(m ³ s ⁻¹)	High	25 900	27 200	26 610	11 800	7 483	8 821	5 330	4 785	15 340	22 310	27 690	25 520	9 662
Peak flow (m ³ s ⁻¹)		73 43	73 97	85 73	60 03	31 15	45 11	19 86	32 90	58 02	84 98	80 82	65 55	85 73
Runoff (mm)		158	131	105	65	51	34	22	29	47	113	135	168	1059
Rainfall (mm)		158	116	118	81	87	76	74	95	127	158	153	171	1412

Factors affecting flow regime: N
Station type: VA1982 runoff is 120% of previous mean
rainfall 119%**061003 Gwaun at Cilrhedyn Bridge****1982**Measuring authority: WELS
First year: 1968Grid reference: SN 005349
Level stn. (m OD) 70.31Catchment area (sq km): 31.3
Max alt. (m OD): 468**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	1 802	1 651	1 874	0 477	0 247	0 296	0 408	0 292	0 598	2 499	2 602	2 262	1 261
(m ³ s ⁻¹)	Peak	4 92	10 20	12 14	2 93	1 01	2 22	7 03	1 34	4 92	15 25	14 78	11 31	16 25
Runoff (mm)		154	128	160	40	21	25	35	25	50	214	215	194	1260
Rainfall (mm)		125	147	149	38	51	150	74	100	177	242	265	230	1748

Monthly and yearly statistics for previous record (Apr 1969 to Dec 1981—incomplete or missing months total 0.1 years)

Mean	Avg	1 908	1 797	1 402	0 786	0 580	0 523	0 299	0 539	0 596	1 284	1 773	1 941	1 118
flows	Low	0 859	0 751	0 578	0 352	0 231	0 191	0 116	0 073	0 288	0 271	1 080	1 487	0 802
(m ³ s ⁻¹)	High	3 898	4 108	3 668	1 298	1 248	1 600	0 712	1 366	1 630	3 462	3 080	2 851	1 392
Peak flow (m ³ s ⁻¹)		22 52	21 10	16 70	13 51	7 23	18 35	5 56	23 48	15 64	18 13	20 03	20 59	23 48
Runoff (mm)		163	140	120	65	50	43	26	46	49	110	147	166	1125
Rainfall (mm)		180	137	147	76	79	62	80	95	162	188	157	181	1554

Factors affecting flow regime:
Station type: VA1982 runoff is 112% of previous mean
rainfall 112%**063001 Ystwyth at Pont Llwlwyn****1982**Measuring authority: WELS
First year: 1963Grid reference: SN 591774
Level stn. (m OD) 11.98Catchment area (sq km): 169.6
Max alt. (m OD): 611**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	10 800	5 711	10 150	1 797	0 657	2 088	1 893	3 271	5 533	7 424	12 890	10 750	8 080
(m ³ s ⁻¹)	Peak													
Runoff (mm)		171	81	160	27	10	32	30	52	85	117	197	170	1132
Rainfall (mm)		138	102	159	38	43	156	58	149	155	150	222	188	1666

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg	8 974	7 388	6 041	4 308	3 709	2 487	2 590	3 272	4 154	7 012	9 387	10 850	5 846
flows	Low	2 288	2 783	2 901	0 961	0 583	0 675	0 422	0 181	0 882	0 535	4 089	2 219	3 783
(m ³ s ⁻¹)	High	15 110	15 200	18 470	10 080	10 100	6 012	5 461	6 934	10 670	19 800	18 320	22 600	7 776
Peak flow (m ³ s ⁻¹)		105 60	88 63	126 70	90 32	105 10	129 70	68 24	174 30	71 02	129 90	128 10	210 40	210 40
Runoff (mm)		142	106	95	66	59	38	41	52	63	111	143	171	1087
Rainfall (mm)		149	107	115	85	98	85	99	102	129	144	167	174	1454

Factors affecting flow regime:
Station type: VA1982 runoff is 104% of previous mean
rainfall 107%**064001 Dovey at Dovey Bridge****1982**Measuring authority: WELS
First year: 1962Grid reference: SH 745019
Level stn. (m OD) 5.89Catchment area (sq km): 471.3
Max alt. (m OD): 905**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	38 430	23 750	45 820	6 791	3 212	10 550	5 842	19 800	22 940	28 460	54 080	48 750	26 880
(m ³ s ⁻¹)	Peak	180 40	94 81	302 00	25 18	15 18	67 94	20 35	210 00	203 60	160 80	240 40	319 00	319 00
Runoff (mm)		218	122	260	35	18	58	33	113	126	162	297	277	1720
Rainfall (mm)		190	146	241	46	71	162	54	219	186	188	323	285	2111

Monthly and yearly statistics for previous record (Oct 1962 to Dec 1981—incomplete or missing months total 9.7 years)

Mean	Avg	30 170	23 300	26 670	18 840	14 830	11 640	9 103	11 580	17 370	29 770	34 340	42 000	22 482
flows	Low	6 245	5 174	11 770	5 800	5 643	2 518	3 350	2 391	6 595	10 770	17 940	7 501	18 588
(m ³ s ⁻¹)	High	64 210	46 060	75 790	42 490	23 600	21 770	14 090	24 050	28 780	76 980	62 790	88 280	27 544
Peak flow (m ³ s ⁻¹)		350 20	340 00	360 70	271 30	337 20	402 10	162 00	187 30	254 90	344 00	375 50	580 50	580 50
Runoff (mm)		171	120	152	104	84	64	52	66	96	189	189	239	1506
Rainfall (mm)		183	131	151	114	116	105	111	128	166	172	215	225	1817

Factors affecting flow regime: N
Station type: VA1982 runoff is 114% of previous mean
rainfall 116%

065005 Erch at Pencaenewydd**1982**Measuring authority: WELS
First year: 1972Grid reference: SH 400404
Level stn. (m OD) 56.13Catchment area (sq km): 18.1
Max alt. (m OD): 564**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	0.893	0.746	0.980	0.281	0.171	0.140	0.110	0.150	0.379	1.254	1.816	1.080	0.667
(m ³ s ⁻¹)	Peak	6.17	4.74	11.34	1.17	1.80	0.37	0.30	2.51	4.01	8.79	16.91	6.82	16.91
Runoff (mm)		132	100	145	40	25	20	16	22	54	188	260	160	1161
Rainfall (mm)		127	116	151	36	63	96	52	177	190	274	283	184	1749

Monthly and yearly statistics for previous record (Jan 1973 to Dec 1981)

Mean	Avg	0.934	0.951	0.742	0.425	0.356	0.192	0.149	0.232	0.413	0.764	1.006	1.002	0.595
flows	Low	0.629	0.414	0.408	0.177	0.135	0.089	0.104	0.062	0.167	0.236	0.593	0.600	0.430
(m ³ s ⁻¹)	High	1.396	1.869	1.804	0.892	0.728	0.539	0.230	0.504	0.919	1.736	1.301	1.616	0.734
Peak flow (m ³ s ⁻¹)		10.25	15.45	19.78	8.73	4.68	6.99	3.87	5.35	7.42	11.84	13.37	10.45	19.78
Runoff (mm)		138	128	110	61	53	27	22	34	59	113	144	148	1038
Rainfall (mm)		134	104	116	62	77	59	76	89	134	145	154	137	1287

Factors affecting flow regime: N
Station type: C1982 runoff is 112% of previous mean
rainfall 136%**066006 Elwy at Pont-y-gwyddel****1982**Measuring authority: WELS
First year: 1972Grid reference: SH 952718
Level stn. (m OD) 87.90Catchment area (sq km): 194.0
Max alt. (m OD): 518**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	9.487	4.003	8.952	0.942	0.799	1.383	1.402	1.272	2.518	7.187	11.850	10.230	5.002
(m ³ s ⁻¹)	Peak	35.82	18.60	69.65	2.68	5.53	18.00	27.05	11.78	20.07	48.01	52.76	60.00	69.65
Runoff (mm)		131	50	124	13	11	18	19	18	34	99	158	141	816
Rainfall (mm)		96	89	165	23	70	120	57	118	120	132	228	165	1383

Monthly and yearly statistics for previous record (Dec 1973 to Dec 1981)

Mean	Avg	7.703	7.282	5.767	2.432	1.821	1.255	0.683	1.083	2.781	5.698	7.298	7.521	4.246
flows	Low	4.628	4.079	1.539	0.823	0.479	0.359	0.318	0.242	0.630	1.733	2.757	4.879	2.908
(m ³ s ⁻¹)	High	11.430	12.050	11.950	4.722	2.960	3.300	1.383	4.351	7.450	11.530	11.590	14.450	5.094
Peak flow (m ³ s ⁻¹)		82.42	50.82	78.59	25.01	21.53	14.95	13.30	35.15	58.57	143.00	101.60	75.42	143.00
Runoff (mm)		108	92	80	32	22	17	9	15	37	79	97	104	691
Rainfall (mm)		130	101	103	55	72	72	76	82	143	131	149	139	1263

Factors affecting flow regime: SRP
Station type: VA1982 runoff is 118% of previous mean
rainfall 110%**067008 Alyn at Pont-y-capel****1982**Measuring authority: WELS
First year: 1965Grid reference: SJ 336541
Level stn. (m OD) 37.29Catchment area (sq km): 227.1
Max alt. (m OD): 562**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	7.027	2.197	3.264	1.237	0.793	1.035	0.770	0.625	0.768	1.900	4.518	5.223	2.446
(m ³ s ⁻¹)	Peak	27.53	3.89	19.73	2.13	1.28	10.11	5.58	1.43	5.32	6.39	13.47	14.47	27.53
Runoff (mm)		83	23	38	14	9	12	9	7	9	22	52	62	341
Rainfall (mm)		73	36	93	28	29	114	40	84	85	83	147	106	918

Monthly and yearly statistics for previous record (Jun 1966 to Dec 1981)

Mean	Avg	4.173	4.383	3.504	2.392	1.786	1.175	0.939	0.897	1.071	2.140	3.019	4.385	2.481
flows	Low	1.753	2.088	1.465	1.023	0.741	0.438	0.331	0.287	0.474	0.452	0.614	1.246	1.266
(m ³ s ⁻¹)	High	7.219	9.085	8.027	5.573	5.657	2.873	2.098	2.244	3.906	6.896	5.818	9.481	3.027
Peak flow (m ³ s ⁻¹)		28.73	28.52	28.11	21.09	26.86	18.34	23.23	18.07	59.11	21.90	28.21	35.92	59.11
Runoff (mm)		49	47	41	27	21	13	11	11	12	25	34	52	345
Rainfall (mm)		87	74	75	57	73	62	65	68	86	83	104	98	932

Factors affecting flow regime: EI
Station type: CC1982 runoff is 99% of previous mean
rainfall 98%**067025 Clywedog at Bowling Bank****1982**Measuring authority: WELS
First year: 1976Grid reference: SJ 396483
Level stn. (m OD) 14.00Catchment area (sq km): 98.6
Max alt. (m OD): 460**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	3.498	1.544	2.030	0.896	0.654	0.943	0.738	0.620	0.717	1.200	2.693	2.968	1.542
(m ³ s ⁻¹)	Peak	18.14	2.85	8.31	2.27	2.19	5.45	7.56	2.57	4.69	3.05	8.25	9.76	18.14
Runoff (mm)		95	38	55	24	18	25	20	17	19	33	71	81	494
Rainfall (mm)		76	30	86	28	27	119	42	57	79	78	135	105	860

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1981)

Mean	Avg	2.281	2.804	2.323	1.341	1.111	0.960	0.611	0.839	0.856	1.362	1.301	2.618	1.510
flows	Low	1.374	1.378	1.167	0.778	0.596	0.473	0.431	0.362	0.512	0.580	0.989	1.589	1.275
(m ³ s ⁻¹)	High	2.934	4.475	3.669	2.871	1.649	1.358	0.705	0.832	2.057	3.176	1.740	4.039	1.708
Peak flow (m ³ s ⁻¹)		13.50	19.44	13.54	9.08	7.89	7.78	4.29	4.31	47.84	16.97	6.30	25.62	47.84
Runoff (mm)		61	70	63	35	30	25	17	17	23	37	34	71	483
Rainfall (mm)		81	84	110	42	85	44	41	53	114	124	71	104	953

Factors affecting flow regime: GE
Station type: C1982 runoff is 102% of previous mean
rainfall 90%

068003 Dane at Rudheath**1982**Measuring authority: NWWA
First year: 1949Grid reference: SJ 668718
Level stn. (m OD) 13.19Catchment area (sq km): 407.1
Max alt. (m OD): 547

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	11.300	4.086	7.673	3.063	1.635	3.122	1.634	2.346	3.079	3.813	7.569	8.195	4.793
(m ³ s ⁻¹)	Peak	84.62	9.93	34.15	7.91	3.41	20.79	7.29	12.81	23.32	17.27	21.00	26.55	84.62
Runoff (mm)		74	24	50	20	11	20	11	15	20	25	48	54	372
Rainfall (mm)		66	21	86	27	27	122	33	98	82	57	101	84	804

Monthly and yearly statistics for previous record (Oct 1949 to Dec 1981—incomplete or missing months total 5.3 years)

Mean	Avg.	6.854	5.829	4.508	3.768	2.929	2.398	2.802	3.610	3.811	4.434	6.515	7.409	4.568
Flows	Low	2.183	1.545	1.277	0.988	0.720	0.746	0.734	0.654	0.633	0.877	1.396	1.803	2.333
(m ³ s ⁻¹)	High	15.330	12.760	17.210	8.144	7.335	6.884	8.012	14.360	11.920	14.350	16.290	22.920	8.662
Peak flow (m ³ s ⁻¹)		114.80	65.24	134.00	51.40	63.60	41.96	82.83	67.96	84.20	66.26	102.90	92.78	134.00
Runoff (mm)		45	35	30	24	19	15	18	24	24	29	41	49	354
Rainfall (mm)		77	62	60	57	65	69	78	86	87	77	89	87	889

Factors affecting flow regime: S PGEI
Station type: VA1982 runoff is 105% of previous mean
rainfall 90%**068020 Gowy at Bridge Trafford****1982**Measuring authority: NWWA
First year: 1979Grid reference: SJ 448711
Level stn. (m OD) 4.06Catchment area (sq km): 156.0
Max alt. (m OD): 222

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	2.465	0.939	1.615	0.716	0.443	0.524	0.352	0.368	0.398	0.681	1.751	2.243	1.041
(m ³ s ⁻¹)	Peak	14.75	2.38	7.45	1.43	0.76	5.62	2.19	0.74	1.15	3.17	4.92	15.12	15.12
Runoff (mm)		42	15	28	12	8	9	6	6	7	12	29	39	211
Rainfall (mm)														

Monthly and yearly statistics for previous record (Jan 1981 to Dec 1981)

Mean	Avg.	2.354	2.067	3.022	0.813	0.679	0.905	0.800	2.509	0.905	3.407	2.498	3.837	1.990
Flows	Low	2.354	2.067	3.022	0.813	0.679	0.905	0.800	2.509	0.905	3.407	2.498	3.837	1.990
(m ³ s ⁻¹)	High	2.354	2.067	3.022	0.813	0.679	0.905	0.800	2.509	0.905	3.407	2.498	3.837	1.990
Peak flow (m ³ s ⁻¹)		16.03	31.61	21.14	3.21	1.55	18.42	5.77	38.39	8.96	29.52	34.03	27.31	38.39
Runoff (mm)		40	32	52	14	12	15	14	43	15	58	42	66	402
Rainfall (mm)														

Factors affecting flow regime: PG
Station type: FV

1982 runoff is 52% of previous mean

069002 Irwell at Adelphi Weir**1982**Measuring authority: NWWA
First year: 1949Grid reference: SJ 824987
Level stn. (m OD) 24.15Catchment area (sq km): 559.4
Max alt. (m OD): 473

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	23.890	14.010	28.110	8.422	7.619	14.070	8.692	15.290	10.370	14.370	30.150	32.230	17.102
(m ³ s ⁻¹)	Peak	167.60	43.84	267.60	52.49	39.38	110.00	13.74	133.60	39.17	52.49	110.00	227.80	267.60
Runoff (mm)		114	61	135	39	38	65	32	73	48	69	140	154	966
Rainfall (mm)		91	55	150	36	59	151	21	173	85	93	176	164	1264

Monthly and yearly statistics for previous record (Oct 1949 to Dec 1981—incomplete or missing months total 2.0 years)

Mean	Avg.	24.420	22.700	17.010	14.180	12.170	10.090	11.750	16.450	17.230	20.840	25.550	29.630	18.487
Flows	Low	3.705	4.787	7.803	5.408	4.348	2.750	4.031	3.876	2.991	4.990	7.534	7.489	10.469
(m ³ s ⁻¹)	High	40.280	67.230	48.030	27.070	21.530	18.900	26.150	56.000	43.460	52.510	51.100	84.660	30.469
Peak flow (m ³ s ⁻¹)		430.40	400.30	295.60	156.20	141.60	238.00	385.60	395.70	390.80	485.10	334.90	419.50	485.10
Runoff (mm)		117	99	81	68	68	47	56	79	80	100	118	142	1043
Rainfall (mm)		116	87	87	78	82	83	105	123	122	121	133	135	1272

Factors affecting flow regime: S PGEI
Station type: B1982 runoff is 93% of previous mean
rainfall 99%**069003 Irk at Scotland Weir****1982**Measuring authority: NWWA
First year: 1949Grid reference: SJ 841992
Level stn. (m OD) 26.21Catchment area (sq km): 72.5
Max alt. (m OD): 213

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	2.887	2.068	3.458	1.732	1.544	2.222	1.326	2.478	1.656	1.861	3.320	3.481	2.336
(m ³ s ⁻¹)	Peak	18.35	8.88	24.31	12.81	9.88	24.76	18.42	29.54	11.58	10.69	19.91	25.41	29.54
Runoff (mm)		107	69	128	62	57	79	49	91	59	69	119	129	1018
Rainfall (mm)		70	36	119	27	40	118	23	142	68	71	153	120	987

Monthly and yearly statistics for previous record (Oct 1937 to Dec 1981—incomplete or missing months total 13.8 years)

Mean	Avg.	2.275	2.220	1.866	1.611	1.457	1.457	1.520	1.844	1.807	1.998	2.378	2.468	1.907
Flows	Low	0.582	0.595	0.470	0.701	0.543	0.431	0.672	0.324	0.297	0.521	0.715	0.876	0.834
(m ³ s ⁻¹)	High	3.682	6.529	4.539	3.794	2.841	2.855	2.794	4.689	4.529	4.759	5.006	5.744	3.092
Peak flow (m ³ s ⁻¹)		45.31	43.89	42.48	46.12	28.78	72.92	50.97	45.31	55.22	62.87	39.64	55.49	72.92
Runoff (mm)		84	75	69	58	54	52	56	68	65	74	85	91	830
Rainfall (mm)		93	68	72	65	70	75	90	104	101	99	109	107	1053

Factors affecting flow regime: S PGEI
Station type: CB1982 runoff is 123% of previous mean
rainfall 94%

069006 Bollin at Dunham Massey**1982**Measuring authority: NWWA
First year: 1955Grid reference: SJ 727875
Level stn. (m OD) 12.80Catchment area (sq km): 256.0
Max alt. (m OD) 483**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	7.865	3.323	6.951	2.538	1.835	2.825	1.499	2.339	2.856	3.379	6.748	8.097	4.188
(m ³ s ⁻¹)	Peak	32.02	6.70	23.70	5.44	3.84	18.41	3.08	8.00	19.94	16.07	18.36	29.27	32.02
Runoff (mm)		87	31	73	26	19	29	16	24	29	35	68	85	517
Rainfall (mm)		59	25	100	29	32	121	26	122	80	66	105	99	864

Monthly and yearly statistics for previous record (Oct 1955 to Dec 1981—incomplete or missing months total 1.1 years)

Mean	Avg	6.005	5.558	4.234	3.416	2.874	2.250	2.325	2.941	3.215	3.989	5.212	6.077	4.001
flows	Low	1.639	1.686	1.694	1.742	1.286	0.707	0.875	0.464	0.651	1.300	1.804	2.296	2.728
(m ³ s ⁻¹)	High	10.240	12.880	11.470	8.732	5.781	5.953	5.626	11.410	8.963	11.340	9.425	14.510	6.307
Peak flow (m ³ s ⁻¹)		43.95	39.29	36.91	60.43	63.02	34.19	41.50	41.47	35.05	41.18	44.35	48.19	63.02
Runoff (mm)		63	53	44	35	30	23	24	31	33	42	53	64	493
Rainfall (mm)		79	60	60	55	66	70	82	90	86	80	84	86	898

Factors affecting flow regime: S PGEI
Station type: VA1982 runoff is 105% of previous mean
rainfall 96%**069007 Mersey at Ashton Weir****1982**Measuring authority: NWWA
First year: 1958Grid reference: SJ 772936
Level stn. (m OD) 14.87Catchment area (sq km): 660.0
Max alt. (m OD) 636**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	19.930	9.035	18.740	5.162	3.585	7.124	3.825	7.591	7.856	9.276	18.820	18.370	10.605
(m ³ s ⁻¹)	Peak	89.05	18.98	83.99	14.71	10.22	83.86	7.53	37.30	41.16	35.69	64.17	112.70	112.70
Runoff (mm)		81	33	88	20	15	28	16	31	31	37	74	75	508
Rainfall (mm)		94	36	133	37	40	152	22	158	95	77	149	126	1119

Monthly and yearly statistics for previous record (Jan 1981 to Dec 1981)

Mean	Avg	29.220	14.240	36.210	9.480	9.120	5.133	4.946	8.016	9.001	25.500	25.190	13.830	15.875
flows	Low	29.220	14.240	36.210	9.480	9.120	5.133	4.946	8.016	9.001	25.500	25.190	13.830	15.876
(m ³ s ⁻¹)	High	29.220	14.240	36.210	9.480	9.120	5.133	4.946	8.016	9.001	25.500	25.190	13.830	15.876
Peak flow (m ³ s ⁻¹)		176.90	105.10	176.70		27.37	20.50	20.69	102.60	81.26	202.50	303.70	55.56	
Runoff (mm)		119	57	147	37	37	20	20	33	35	104	99	56	759
Rainfall (mm)		146	86	209	77	83	55	80	98	134	204	155	94	1421

Factors affecting flow regime: S PGEI
Station type: CB1982 runoff is 67% of previous mean
rainfall 79%**069015 Etherow at Compstall****1982**Measuring authority: NWWA
First year: 1969Grid reference: SJ 962908
Level stn. (m OD) 73.49Catchment area (sq km): 156.0
Max alt. (m OD) 628**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	5.796	3.245	4.503	1.070	0.539	1.235	0.772	1.887	2.020	2.677	6.472	5.412	2.969
(m ³ s ⁻¹)	Peak	21.84	8.96	18.53	6.85	2.45	19.79	1.65	10.81	14.26	14.22	27.07	29.64	28.64
Runoff (mm)		100	50	77	18	9	21	13	32	34	46	108	93	600
Rainfall (mm)		111	43	150	43	48	158	20	193	104	95	171	153	1289

Monthly and yearly statistics for previous record (Jan 1977 to Dec 1981—incomplete or missing months total 0.3 years)

Mean	Avg	5.532	5.261	6.484	2.831	2.597	1.573	1.361	1.873	1.867	4.157	5.576	4.646	3.642
flows	Low	3.933	2.141	3.392	1.291	0.540	0.835	0.900	0.965	1.178	1.264	2.990	2.879	3.111
(m ³ s ⁻¹)	High	8.964	8.539	10.080	5.445	4.870	2.997	1.993	3.572	2.692	9.424	7.471	7.522	4.169
Peak flow (m ³ s ⁻¹)		35.03	44.46	46.03	27.50	18.79	24.95	15.22	24.43	37.45	42.12	35.83	62.95	62.95
Runoff (mm)		95	87	111	47	45	26	23	32	31	71	93	80	737
Rainfall (mm)		172	121	203	52	62	124	94	130	132	262	182	119	1653

Factors affecting flow regime: S PGEI
Station type: C1982 runoff is 81% of previous mean
rainfall 78%**070004 Yarrow at Croston Mill****1982**Measuring authority: NWWA
First year: 1973Grid reference: SD 498180
Level stn. (m OD) 6.85Catchment area (sq km): 74.4
Max alt. (m OD) 456**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	2.564	1.507	3.306	0.908	0.798	1.240	0.624	1.156	1.059	1.880	3.178	3.861	1.840
(m ³ s ⁻¹)	Peak	17.05	8.63	34.85	10.22	5.36	30.15	1.38	11.79	8.93	14.21	13.69	24.68	34.85
Runoff (mm)		92	49	119	32	29	43	22	42	37	68	111	139	782
Rainfall (mm)		60	47	113	34	58	109	31	137	82	100	139	124	1034

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1981)

Mean	Avg	3.185	2.644	3.077	1.052	1.140	0.823	0.690	0.894	1.101	3.047	2.916	3.008	1.965
flows	Low	1.491	1.108	1.366	0.586	0.508	0.405	0.494	0.379	0.628	0.854	1.811	1.756	1.251
(m ³ s ⁻¹)	High	4.917	4.917	7.574	1.866	2.577	1.173	0.971	1.352	2.062	6.360	4.485	4.853	2.830
Peak flow (m ³ s ⁻¹)		33.44	20.17	93.13	12.56	13.69	13.88	11.69	15.84	28.57	89.38	33.83	34.28	93.13
Runoff (mm)		115	87	111	37	41	29	25	32	38	110	102	108	834
Rainfall (mm)		129	69	211	55	101	70	59	72	155	194	122	74	1311

Factors affecting flow regime: S PGEI
Station type: MIS1982 runoff is 94% of previous mean
rainfall 79%

071004 Calder at Whalley Weir**1982**Measuring authority: NWWA
First year: 1961Grid reference: SD 729360
Level stn. (m OD) 39.85Catchment area (sq km): 316.0
Max alt. (m OD): 558

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	14.300	6.443	13.630	3.237	3.266	7.372	2.506	7.898	4.829	7.031	16.870	17.300	8.724
(m ³ s ⁻¹)	Peak	112.30	24.77	151.40	13.46	23.73	96.86	6.58	92.64	47.44	49.72	69.49	161.60	161.60
Runoff (mm)		121	49	116	27	28	60	21	67	40	60	138	147	873
Rainfall (mm)		97	48	143	27	66	165	16	177	83	83	188	165	1256

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981—incomplete or missing months total 2.6 years)

Mean	Avg.	12.444	10.090	9.006	6.780	5.516	3.993	3.896	5.837	7.953	11.270	13.520	13.110	8.572
Flows	Low	5.766	3.370	3.989	2.272	2.053	1.888	1.773	1.564	2.065	2.397	6.958	4.886	6.197
(m ³ s ⁻¹)	High	18.870	17.170	25.320	13.010	9.916	7.155	9.059	16.280	18.620	23.910	21.990	25.610	11.485
Peak flow (m ³ s ⁻¹)		183.20	146.10	344.20	108.40	91.66	135.50	230.60	141.90	206.00	229.50	615.00	194.30	615.00
Runoff (mm)		105	78	76	52	47	33	33	49	65	96	111	111	858
Rainfall (mm)		117	85	97	74	83	81	90	101	122	121	138	122	1229

Factors affecting flow regime: E1
Station type: FV1982 runoff is 102% of previous mean
rainfall 102%**071010 Pendle Water at Barden Lane****1982**Measuring authority: NWWA
First year: 1971Grid reference: SD 837351
Level stn. (m OD) 92.28Catchment area (sq km): 108.0
Max alt. (m OD): 557

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	5.039	2.015	4.081	0.903	0.932	2.766	0.838	2.384	1.484	2.190	5.279	5.950	2.822
(m ³ s ⁻¹)	Peak	56.24	7.28	64.30	3.79	8.11	62.26	3.22	27.09	16.73	19.10	29.31	75.42	75.42
Runoff (mm)		125	45	101	22	23	66	21	59	36	54	127	148	827
Rainfall (mm)														

Monthly and yearly statistics for previous record (Jan 1977 to Dec 1981—incomplete or missing months total 2.0 years)

Mean	Avg.	4.464	3.685	5.034	2.133	1.401	1.383	0.885	1.272	2.835	3.683	4.758	3.593	2.922
Flows	Low	3.033	2.794	2.392	1.272	0.828	0.688	0.745	0.896	1.637	1.580	3.356	2.663	2.516
(m ³ s ⁻¹)	High	6.058	4.817	8.577	3.252	1.833	2.000	0.990	1.717	3.698	6.610	5.619	5.075	3.643
Peak flow (m ³ s ⁻¹)		46.01	79.00	83.89	39.92	10.60	17.52	16.00	37.95	67.37	81.61	78.54	50.30	83.69
Runoff (mm)		111	82	125	51	35	33	22	32	68	91	114	89	853
Rainfall (mm)														

Factors affecting flow regime: S E1
Station type: FV

1982 runoff is 97% of previous mean

072002 Wyre at St Michaels**1982**Measuring authority: NWWA
First year: 1962Grid reference: SD 463411
Level stn. (m OD) 4.36Catchment area (sq km): 275.0
Max alt. (m OD): 560

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	14.000	6.902	10.820	1.823	1.355	3.805	1.195	5.816	4.457	9.282	15.820	15.560	7.570
(m ³ s ⁻¹)	Peak	153.70	98.43	112.00	4.43	11.53	58.78	5.13	89.10	58.99	95.07	92.26	148.90	153.70
Runoff (mm)		136	61	105	17	13	36	12	57	42	90	149	152	870
Rainfall (mm)		127	85	130	29	63	154	33	174	93	129	188	168	1353

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981—incomplete or missing months total 0.2 years)

Mean	Avg	8.867	7.255	6.842	4.734	3.482	2.828	3.020	4.472	6.750	9.077	10.220	9.999	6.480
Flows	Low	3.983	1.746	2.270	0.774	0.732	0.444	0.460	0.249	0.907	0.617	4.859	2.581	3.106
(m ³ s ⁻¹)	High	14.780	16.030	25.920	12.090	10.450	7.096	5.690	16.240	13.290	25.500	15.630	19.400	10.329
Peak flow (m ³ s ⁻¹)		148.20	145.60	168.90	123.00	128.20	146.60	96.89	182.10	138.60	180.40	159.00	165.60	180.40
Runoff (mm)		86	64	67	45	34	27	29	44	64	88	96	97	741
Rainfall (mm)		116	77	95	72	81	89	94	108	138	134	140	119	1263

Factors affecting flow regime: S PG
Station type: FV1982 runoff is 117% of previous mean
rainfall 107%**072004 Lune at Caton****1982**Measuring authority: NWWA
First year: 1968Grid reference: SD 529653
Level stn. (m OD) 10.66Catchment area (sq km): 983.0
Max alt. (m OD): 736

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	70.960	36.770	57.750	6.350	11.020	19.380	6.145	31.000	27.080	42.590	79.800	68.880	38.144
(m ³ s ⁻¹)	Peak	854.00	362.00	399.30	19.73	163.20	217.80	26.30	382.20	237.10	343.10	356.50	499.90	854.00
Runoff (mm)		193	90	157	17	30	51	17	84	71	116	210	188	1228
Rainfall (mm)														

Monthly and yearly statistics for previous record (Jan 1959 to Dec 1981—incomplete or missing months total 4.0 years)

Mean	Avg	49.920	37.180	33.740	30.420	19.780	15.800	19.580	25.570	34.160	41.530	51.420	51.690	34.225
Flows	Low	6.621	3.840	11.830	4.202	2.565	3.387	4.980	2.165	2.791	4.312	27.220	18.730	24.696
(m ³ s ⁻¹)	High	81.700	76.630	113.800	67.970	39.670	49.180	41.480	69.640	63.650	134.400	97.220	93.770	46.501
Peak flow (m ³ s ⁻¹)		591.40	674.50	650.20	94.39	228.20	213.50	281.40	88.30	395.10	536.00	541.50	149.00	674.50
Runoff (mm)		136	92	92	80	54	42	53	70	90	113	136	141	1099
Rainfall (mm)		144	96	110	96	94	93	113	133	152	136	164	148	1479

Factors affecting flow regime: SRP
Station type: CB

1982 runoff is 112% of previous mean

073002 Crake at Low Nibthwaite**1982**Measuring authority: NWWA
First year: 1963Grid reference: SD 294882
Level stn. (m OD) 38.56Catchment area (sq km): 73.0
Max alt. (m OD) 803

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	8 121	6 469	6 639	1 127	0 728	1 138	1 840	3 273	2 955	5 837	9 446	8 918	4 681
(m ³ s ⁻¹)	Peak	32 50	15 27	14 63	1 97	1 22	2 92	3 09	9 47	7 04	10 50	16 01	17 41	32 50
Runoff (mm)		298	214	244	40	27	40	60	120	105	214	335	327	2025
Rainfall (mm)		279	186	232	38	85	136	72	265	155	259	349	349	2405

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981—incomplete or missing months total 1.4 years)

Mean	Avg	5 809	4 619	3 893	3 378	2 430	2 045	1 959	2 773	4 139	5 743	6 041	5 888	4 057
flows	Low	2 306	1 463	1 656	0 882	0 255	0 222	0 745	0 292	0 330	2 256	2 394	2 454	2 928
(m ³ s ⁻¹)	High	10 410	8 201	9 085	6 017	4 841	5 372	3 824	5 622	6 533	12 960	9 030	9 896	4 988
Peak flow (m ³ s ⁻¹)		25 64	17 44	19 73	13 91	12 13	8 57	11 50	11 11	17 11	30 01	21 51	29 49	30 01
Runoff (mm)		213	155	143	120	89	73	72	102	147	211	215	218	1754
Rainfall (mm)		222	137	180	122	123	125	140	165	224	231	249	221	2139

Factors affecting flow regime: S
Station type: VA1982 runoff is 115% of previous mean
rainfall 112%**073005 Kent at Sedgwick****1982**Measuring authority: NWWA
First year: 1968Grid reference: SD 509874
Level stn. (m OD) 18.90Catchment area (sq km): 209.0
Max alt. (m OD) 820

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	17 010	10 840	14 500	2 499	1 976	4 258	3 285	6 016	5 949	12 710	21 410	17 060	8 793
(m ³ s ⁻¹)	Peak	197 70	58 56	75 11	6 13	20 91	24 66	24 53	35 90	46 60	52 24	97 56	121 90	197 70
Runoff (mm)		218	126	186	31	25	53	42	77	74	163	266	219	1478
Rainfall (mm)		223	134	190	32	90	145	60	171	129	198	291	265	1928

Monthly and yearly statistics for previous record (Nov 1968 to Dec 1981)

Mean	Avg	11 840	9 795	9 035	6 600	3 976	3 859	3 398	5 285	8 443	9 328	14 120	11 860	8 114
flows	Low	7 521	4 529	3 893	2 038	1 222	0 872	1 813	0 820	1 753	1 396	6 865	5 466	6 995
(m ³ s ⁻¹)	High	20 820	16 800	22 750	12 620	6 969	13 010	8 291	10 920	15 310	17 940	20 300	22 360	10 316
Peak flow (m ³ s ⁻¹)		148 70	114 00	166 10	111 10	32 89	72 86	94 65	63 72	120 70	123 50	175 00	139 00	176 00
Runoff (mm)		152	114	116	82	51	48	44	68	105	120	175	152	1225
Rainfall (mm)		186	113	148	92	87	104	111	123	189	166	219	170	1708

Factors affecting flow regime:
Station type: CBVA1982 runoff is 121% of previous mean
rainfall 113%**073008 Bela at Beetham****1982**Measuring authority: NWWA
First year: 1969Grid reference: SD 496806
Level stn. (m OD) 10.90Catchment area (sq km): 131.0
Max alt. (m OD) 338

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	7 971	4 124	5 818	1 156	0 851	1 216	0 850	1 684	2 036	4 413	7 894	6 874	3 741
(m ³ s ⁻¹)	Peak	51 72	21 57	20 48	1 95	7 40	6 10	1 49	10 24	9 70	21 12	27 40	20 14	61 72
Runoff (mm)		163	76	119	23	17	24	17	34	40	90	156	141	901
Rainfall (mm)		175	87	129	24	85	125	41	155	108	140	200	181	1450

Monthly and yearly statistics for previous record (Aug 1969 to Dec 1981—incomplete or missing months total 5.3 years)

Mean	Avg	5 371	4 168	3 774	2 984	1 331	1 808	1 305	1 508	2 907	3 977	5 434	3 950	3 201
flows	Low	2 508	3 088	1 495	0 888	0 574	0 483	0 534	0 501	0 807	1 091	3 022	1 589	2 193
(m ³ s ⁻¹)	High	8 086	5 609	13 390	6 852	2 246	5 799	3 731	4 498	5 469	8 437	8 901	7 752	4 719
Peak flow (m ³ s ⁻¹)		37 59	30 93	55 47	46 13	8 40	23 93	25 61	21 46	27 35	39 75	32 46	25 61	65 47
Runoff (mm)		110	78	77	59	27	36	27	31	57	81	108	81	771
Rainfall (mm)		126	91	109	69	70	85	94	108	136	118	166	117	1289

Factors affecting flow regime:
Station type: FV1982 runoff is 117% of previous mean
rainfall 112%**074001 Duddon at Duddon Hall****1982**Measuring authority: NWWA
First year: 1968Grid reference: SD 196896
Level stn. (m OD) 14.79Catchment area (sq km): 78.2
Max alt. (m OD) 833

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	10 610	6 798	7 749	0 893	0 845	1 152	0 947	5 222	3 953	8 026	12 290	8 669	5 680
(m ³ s ⁻¹)	Peak	150 80	49 91	140 30	4 94	8 51	9 03	6 18	62 52	31 44	71 39	115 60	134 30	150 80
Runoff (mm)		363	210	265	30	29	38	32	179	131	275	407	331	2291
Rainfall (mm)		312	200	288	42	93	107	59	281	135	306	401	382	2601

Monthly and yearly statistics for previous record (Mar 1968 to Dec 1981)

Mean	Avg	7 623	5 433	4 994	3 855	2 082	2 090	2 658	3 199	5 633	6 856	7 768	8 546	4 873
flows	Low	3 921	2 651	1 701	0 497	0 374	0 547	0 639	0 402	0 560	1 416	4 227	2 921	3 351
(m ³ s ⁻¹)	High	14 210	13 390	10 480	9 096	3 735	5 817	5 034	6 847	8 521	15 160	13 160	10 740	6 627
Peak flow (m ³ s ⁻¹)		135 40	97 11	90 38	43 57	29 31	37 60	47 27	96 58	123 40	165 30	129 20	104 90	165 30
Runoff (mm)		261	169	171	121	71	69	91	110	187	235	257	224	1986
Rainfall (mm)		259	144	179	116	97	120	147	151	227	232	260	213	2140

Factors affecting flow regime:
Station type: CB1982 runoff is 117% of previous mean
rainfall 122%

074002 Irt at Galesyke**1982**Measuring authority: NWWA
First year: 1967Grid reference: NY 136038
Level stn. (m OD) 54.17Catchment area (sq km) 44.2
Max alt. (m OD) 978**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	6.186	4.401	3.879	0.700	0.825	0.870	1.250	3.664	3.128	5.387	7.094	6.055	3.620
(m ³ s ⁻¹)	Peak	31.73	12.72	10.43	1.21	2.77	1.81	1.95	12.23	8.41	14.89	12.52	20.05	31.73
Runoff (mm)		375	241	235	41	50	51	76	227	183	326	416	367	2583
Rainfall (mm)		329	269	305	52	135	121	85	319	253	397	409	454	3128

Monthly and yearly statistics for previous record (Dec 1967 to Dec 1981)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	4.357	3.062	2.844	2.835	1.458	1.739	2.308	2.472	3.643	4.403	5.081	3.947	3.178
flows	Low	1.690	0.943	0.737	0.430	0.257	0.457	0.797	0.569	0.400	0.554	2.870	1.802	2.440
(m ³ s ⁻¹)	High	8.242	5.117	6.575	5.947	7.200	5.216	4.141	5.144	5.582	8.174	6.688	7.645	3.950
Peak flow (m ³ s ⁻¹)		26.71	18.67	16.74	34.04	6.19	10.27	27.26	18.46	17.89	27.29	21.85	20.33	34.04
Runoff (mm)		264	169	177	166	88	102	140	150	214	267	298	239	2269
Rainfall (mm)		326	194	230	160	129	175	195	205	294	303	350	288	2848

Factors affecting flow regime: I
Station type: VA1982 runoff is 114% of previous mean
rainfall 110%**074005 Ehen at Braystones****1982**Measuring authority: NWWA
First year: 1973Grid reference: NY 009061
Level stn. (m OD) 10.11Catchment area (sq km) 125.5
Max alt. (m OD) 899**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	8.145	6.995	6.718	1.165	0.888	0.875	1.074	3.130	4.463	11.030	12.470	10.280	6.603
(m ³ s ⁻¹)	Peak	69.50	39.55	60.31	2.58	2.48	5.29	18.54	48.74	48.74	58.84	64.49	86.19	86.19
Runoff (mm)		174	135	143	24	19	18	23	67	92	236	258	219	1408
Rainfall (mm)		228	190	207	37	96	95	77	211	168	318	291	287	2195

Monthly and yearly statistics for previous record (Jan 1974 to Dec 1981)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	7.879	6.591	5.292	2.964	1.710	1.783	1.705	3.519	5.853	7.549	8.598	6.907	5.020
flows	Low	4.861	2.011	2.225	0.993	0.771	0.779	1.160	0.661	1.694	3.640	5.005	3.136	3.963
(m ³ s ⁻¹)	High	16.030	15.890	10.220	5.945	3.764	4.371	2.835	7.699	8.921	14.080	11.770	13.380	6.328
Peak flow (m ³ s ⁻¹)		97.85	79.36	59.02	81.07	12.56	30.96	20.89	65.67	72.82	115.90	63.82	91.47	115.90
Runoff (mm)		168	128	113	61	36	37	36	75	121	161	178	147	1262
Rainfall (mm)		215	121	165	77	75	93	125	130	219	209	216	176	1821

Factors affecting flow regime: E
Station type: VA1982 runoff is 112% of previous mean
rainfall 121%**075002 Derwent at Camerton****1982**Measuring authority: NWWA
First year: 1960Grid reference: NY 038305
Level stn. (m OD) 16.70Catchment area (sq km) 663.0
Max alt. (m OD) 950**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	50.340	48.240	46.690	5.397	6.317	5.724	6.370	17.570	22.270	46.910	65.620	53.360	31.234
(m ³ s ⁻¹)	Peak	214.30	162.70	175.40	9.66	10.51	13.54	21.80	76.77	102.90	178.20	198.50	199.00	214.30
Runoff (mm)		203	176	189	21	26	22	26	71	87	190	257	216	1482
Rainfall (mm)		219	168	193	24	88	117	61	200	147	247	288	259	2011

Monthly and yearly statistics for previous record (Sep 1960 to Dec 1981)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	36.140	27.500	23.460	20.140	13.930	10.860	11.400	17.880	25.310	33.790	40.680	38.490	24.953
flows	Low	9.587	4.837	7.466	4.359	2.753	2.041	3.582	2.574	2.885	7.755	18.180	14.740	14.824
(m ³ s ⁻¹)	High	84.550	56.570	51.550	38.940	36.780	34.800	20.400	43.470	39.790	107.800	63.200	71.590	34.235
Peak flow (m ³ s ⁻¹)		219.20	165.70	125.50	145.50	99.56	135.80	80.19	216.20	141.40	264.70	211.30	194.00	264.70
Runoff (mm)		146	101	95	79	56	42	46	72	99	136	159	155	1188
Rainfall (mm)		178	104	134	99	104	111	116	141	189	190	196	171	1733

Factors affecting flow regime: S P
Station type: VA1982 runoff is 125% of previous mean
rainfall 116%**075004 Cocker at Southwaite Bridge****1982**Measuring authority: NWWA
First year: 1967Grid reference: NY 131281
Level stn. (m OD) 59.50Catchment area (sq km) 116.6
Max alt. (m OD) 838**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	8.946	9.227	8.341	0.851	1.004	1.231	1.021	3.541	4.539	9.219	12.910	9.440	5.856
(m ³ s ⁻¹)	Peak	81.21	37.83	46.91	1.44	2.58	1.91	3.31	16.08	21.84	35.25	38.12	48.19	81.21
Runoff (mm)		205	191	192	19	23	27	23	81	101	212	287	217	1579
Rainfall (mm)														

Monthly and yearly statistics for previous record (Dec 1967 to Dec 1981)

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	7.539	5.279	4.630	3.919	2.065	2.220	2.291	3.070	5.343	6.698	8.895	7.151	4.921
flows	Low	3.996	2.009	1.270	0.677	0.528	0.633	0.807	0.738	0.718	0.668	4.528	3.031	3.134
(m ³ s ⁻¹)	High	17.190	9.483	10.010	9.001	3.621	9.122	4.085	6.282	9.779	13.960	12.220	12.750	5.821
Peak flow (m ³ s ⁻¹)		50.86	48.58	32.97	45.62	10.09	43.37	24.13	27.11	36.33	93.20	61.61	52.49	93.20
Runoff (mm)		173	111	106	87	47	49	53	71	119	154	198	164	1332
Rainfall (mm)		221	110	139	116	105	109	130	142	205	206	223	185	1891

Factors affecting flow regime: P
Station type: VA

1982 runoff is 119% of previous mean

076015 Eamont at Pooley Bridge**1982**Measuring authority: NWWA
First year: 1970Grid reference: NY 472249
Level stn. (m OD) 144.17Catchment area (sq km): 145.0
Max alt. (m OD) 950**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	14 840	14 100	17 180	2 459	2 925	2 426	3 038	3 806	5 846	14 950	20 950	16 550	9 906
	Peak	63.17	34.04	42.39	4.22	5.64	7.32	6.53	8.69	19.51	24.75	42.56	35.88	63.17
Runoff (mm)		274	235	317	44	54	43	56	67	105	276	374	306	2152
Rainfall (mm)		246	244	306	28	119	146	61	226	198	268	411	348	2601

Monthly and yearly statistics for previous record (Jul 1970 to Dec 1981)

Mean	Avg	11 890	9 812	8 502	5 537	3 661	3 511	2 785	3 864	6 332	8 295	13 430	12 230	7 473
flows	Low	5 967	2 813	3 165	1 842	0 757	0 597	1 232	0 726	0 949	0 841	3 953	5 473	3 958
	High	24 100	21 430	16 880	10 160	7 292	11 340	5 430	6 611	12 010	19 890	21 230	23 550	9 209
Peak flow (m ³ s ⁻¹)		63.40	50.55	38.74	20.31	23.55	19.15	11.91	17.85	40.71	60.68	62.96	69.58	69.68
Runoff (mm)		220	165	157	99	68	63	51	71	113	153	240	226	1626
Rainfall (mm)		281	160	179	106	106	111	121	145	204	208	291	246	2158

Factors affecting flow regime: P
Station type: CC1982 runoff is 132% of previous mean
rainfall 121%**078003 Annan at Brydekirk****1982**Measuring authority: SRPB
First year: 1967Grid reference: NY 191704
Level stn. (m OD) 10.00Catchment area (sq km): 925.0
Max alt. (m OD) 821**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	62 160	49 530	50 470	8 492	8 314	6 793	11 950	8 274	25 050	56 910	77 930	59 860	36 478
	Peak	405.40	226.70	236.00	25.69	43.34	33.92	120.00	73.13	154.40	291.60	287.20	355.40	405.40
Runoff (mm)		180	130	146	24	24	19	35	24	70	165	218	173	1208
Rainfall (mm)		165	150	157	25	83	103	71	117	145	212	218	209	1655

Monthly and yearly statistics for previous record (Oct 1967 to Dec 1981)

Mean	Avg	42 530	33 650	28 520	19 500	14 500	11 820	8 779	13 110	24 690	34 650	41 310	38 890	25 956
flows	Low	23 490	12 930	8 402	6 124	3 519	2 937	3 253	3 284	3 362	3 597	13 950	19 530	16 402
	High	83 440	51 490	53 770	40 600	28 890	32 150	16 180	47 880	47 490	86 820	70 350	68 170	32 319
Peak flow (m ³ s ⁻¹)		268.00	291.30	222.10	182.50	168.50	171.30	151.70	254.50	315.20	499.10	310.40	315.00	499.10
Runoff (mm)		123	89	83	55	42	33	25	38	69	100	116	113	886
Rainfall (mm)		135	92	108	67	87	84	89	93	138	135	136	122	1286

Factors affecting flow regime
Station type: VA1982 runoff is 136% of previous mean
rainfall 129%**078004 Kinnel Water at Redhall****1982**Measuring authority: SRPB
First year: 1963Grid reference: NY 077868
Level stn. (m OD) 53.70Catchment area (sq km): 76.1
Max alt. (m OD) 697**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	5 723	5 132	5 017	0 572	0 930	0 764	0 977	0 883	2 883	5 877	7 534	5 584	3 490
	Peak	78.68	44.71	59.19	4.58	13.05	9.68	21.05	24.57	47.87	88.00	65.14	103.60	103.60
Runoff (mm)		201	163	177	19	33	26	34	31	98	207	257	197	1443
Rainfall (mm)		200	176	180	30	87	115	71	128	171	242	257	230	1887

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981—incomplete or missing months total 1.0 years)

Mean	Avg	3 888	2 841	2 480	1 626	1 560	1 163	0 874	1 305	2 784	3 246	3 916	3 657	2 443
flows	Low	1 610	0 590	0 552	0 251	0 122	0 111	0 128	0 110	0 099	0 207	1 469	1 081	1 507
	High	8 458	5 061	5 124	4 161	3 715	3 282	1 763	4 363	4 985	7 288	6 819	7 009	3 083
Peak flow (m ³ s ⁻¹)		61.17	77.68	53.18	42.46	51.79	36.09	57.71	52.36	67.21	110.90	86.69	76.73	110.90
Runoff (mm)		137	91	87	55	55	40	31	46	95	114	133	129	1013
Rainfall (mm)		138	96	115	78	101	92	90	104	153	144	149	139	1309

Factors affecting flow regime
Station type: VA1982 runoff is 142% of previous mean
rainfall 135%**080001 Urr at Dalbeattie****1982**Measuring authority: SRPB
First year: 1963Grid reference: NX 822610
Level stn. (m OD) 4.01Catchment area (sq km): 199.0
Max alt. (m OD) 432**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	14 110	11 460	11 510	1 708	1 117	1 054	1 381	0 882	6 188	16 880	19 470	14 730	8 370
	Peak	133.70	69.74	95.03	7.80	9.39	11.04	17.74	8.72	62.14	162.20	85.19	164.30	164.30
Runoff (mm)		190	139	155	27	15	14	19	12	81	227	253	198	1325
Rainfall (mm)		185	168	172	34	80	101	63	101	167	268	254	230	1823

Monthly and yearly statistics for previous record (Nov 1963 to Dec 1981)

Mean	Avg	9 078	7 623	5 806	3 501	3 013	2 251	1 237	2 201	5 127	7 407	9 278	9 030	5 451
flows	Low	3 534	1 419	2 094	0 753	0 308	0 246	0 164	0 164	0 319	0 522	3 229	3 369	3 109
	High	19 080	13 750	11 780	7 485	8 279	6 852	2 973	10 080	11 540	19 400	18 110	15 720	7 485
Peak flow (m ³ s ⁻¹)		113.40	91.45	73.72	61.69	53.50	44.86	66.15	61.69	84.28	109.00	95.58	106.30	113.40
Runoff (mm)		127	93	78	46	41	29	17	30	67	100	121	122	884
Rainfall (mm)		125	90	103	66	82	81	77	91	134	131	142	174	1246

Factors affecting flow regime
Station type: VA1982 runoff is 153% of previous mean
rainfall 146%

081003 Luce at Airyhemming**1982**Measuring authority: SRPB
First year: 1966Grid reference: NX 180599
Level stn. (m OD) 19.00Catchment area (sq km): 171.0
Max alt. (m OD): 438

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	12.750	6.945	7.012	1.330	0.756	2.564	0.502	1.555	6.938	12.210	15.940	13.440	6.829
(m ³ s ⁻¹)	Peak	177.10	51.66	60.11	16.17	2.74	41.62	1.51	30.54	135.40	116.20	102.70	140.00	177.10
Runoff (mm)		200	98	110	20	12	39	8	24	105	191	242	211	1259
Rainfall (mm)		184	103	125	39	61	121	27	130	188	215	257	242	1692

Monthly and yearly statistics for previous record (Jan 1967 to Dec 1981)

Mean	Avg	10.540	7.196	5.693	3.406	2.605	1.801	2.004	2.534	6.064	8.698	9.940	8.192	5.717
Flows	Low	5.438	3.943	1.359	0.454	0.260	0.225	0.333	0.287	0.365	1.689	6.945	2.445	3.691
(m ³ s ⁻¹)	High	15.600	12.110	11.300	8.289	7.232	4.587	5.399	6.806	12.820	16.750	13.770	13.120	7.625
Peak flow (m ³ s ⁻¹)		163.90	146.10	197.30	197.60	56.81	64.10	131.50	171.80	192.40	192.90	168.40	172.00	197.60
Runoff (mm)		165	103	89	52	41	27	31	40	92	136	151	128	1065
Rainfall (mm)		171	101	109	73	80	79	91	96	146	157	163	129	1395

Factors affecting flow regime: S P
Station type: VA1982 runoff is 119% of previous mean
rainfall 121%**082001 Girvan at Robstone****1982**Measuring authority: CRPB
First year: 1963Grid reference: NX 217997
Level stn. (m OD) 9.13Catchment area (sq km): 245.5
Max alt. (m OD): 659

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	10.090	7.708	10.110	1.201	2.352	1.038	0.542	2.263	6.878	13.470	19.250	19.290	7.849
(m ³ s ⁻¹)	Peak	67.94	57.31	63.02	1.82	19.03	9.95	1.59	18.05	78.93	108.50	85.66	183.00	183.00
Runoff (mm)		110	76	110	13	26	11	6	25	73	147	203	210	1010
Rainfall (mm)		159	101	143	18	89	86	40	121	181	199	246	246	1639

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1981)

Mean	Avg	10.200	7.351	5.948	3.869	2.860	2.090	2.115	3.031	5.868	8.984	11.430	9.581	6.106
Flows	Low	4.789	2.805	1.594	0.924	0.788	0.482	0.521	0.557	0.546	1.191	6.444	2.894	4.222
(m ³ s ⁻¹)	High	19.370	12.990	11.520	11.340	8.256	5.682	6.317	7.487	11.880	17.380	20.230	19.460	7.803
Peak flow (m ³ s ⁻¹)		85.68	84.94	57.16	67.64	55.75	52.91	97.92	97.54	82.62	147.20	88.07	91.69	147.20
Runoff (mm)		111	73	65	41	31	22	23	33	62	98	121	105	785
Rainfall (mm)		133	85	97	71	86	83	94	93	138	154	165	128	1327

Factors affecting flow regime:
Station type: VA1982 runoff is 129% of previous mean
rainfall 124%**083003 Ayr at Catrine****1982**Measuring authority: CRPB
First year: 1970Grid reference: NS 525259
Level stn. (m OD) 89.94Catchment area (sq km): 166.3
Max alt. (m OD): 548

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	12.820	4.514	6.296	0.864	1.957	1.404	1.836	3.059	6.239	7.192	13.810	10.380	5.864
(m ³ s ⁻¹)	Peak	96.69	39.23	40.88	1.58	17.85	22.45	20.51	27.81	99.39	133.10	114.40	130.00	133.10
Runoff (mm)		207	66	101	13	32	27	30	49	97	116	215	167	1116
Rainfall (mm)		151	89	122	33	90	95	56	127	155	164	235	201	1618

Monthly and yearly statistics for previous record (Sep 1970 to Dec 1981)

Mean	Avg	8.426	4.996	4.917	2.690	1.750	1.826	1.554	2.301	4.958	6.048	8.037	6.555	4.503
Flows	Low	3.423	2.287	1.050	0.525	0.507	0.556	0.362	0.353	0.475	0.443	3.040	2.941	3.223
(m ³ s ⁻¹)	High	13.880	6.566	10.780	6.676	4.537	4.167	3.280	6.597	11.800	10.990	12.900	13.180	5.926
Peak flow (m ³ s ⁻¹)		178.50	93.52	92.30	77.90	80.49	60.69	44.20	74.36	155.50	177.00	126.10	108.90	178.50
Runoff (mm)		136	73	79	42	28	28	25	37	77	97	175	106	864
Rainfall (mm)		142	91	86	69	73	86	91	73	118	136	158	117	1238

Factors affecting flow regime:
Station type: VA1982 runoff is 130% of previous mean
rainfall 123%**084001 Kelvin at Killermont****1982**Measuring authority: CRPB
First year: 1948Grid reference: NS 558705
Level stn. (m OD) 27.10Catchment area (sq km): 335.1
Max alt. (m OD): 578

Hydrometric statistics for 1982

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	13.950	7.213	13.940	3.787	3.829	5.313	5.134	6.585	11.570	12.090	18.560	14.980	9.746
(m ³ s ⁻¹)	Peak	63.35	18.54	46.74	22.53	13.08	17.55	7.69	21.04	72.23	52.28	51.01	64.76	72.23
Runoff (mm)		112	52	111	29	31	41	41	53	90	97	144	120	919
Rainfall (mm)		119	78	145	44	90	80	20	146	171	152	191	170	1406

Monthly and yearly statistics for previous record (Oct 1948 to Dec 1981—incomplete or missing months total 11 years)

Mean	Avg	11.760	9.180	8.005	5.602	4.568	3.811	4.416	5.794	8.272	10.580	12.240	12.720	8.078
Flows	Low	4.772	2.111	3.018	1.607	1.875	1.463	2.097	1.357	1.585	1.959	3.840	5.825	5.538
(m ³ s ⁻¹)	High	22.310	17.330	15.120	9.899	9.833	10.850	7.571	11.000	16.910	32.970	21.520	21.280	13.079
Peak flow (m ³ s ⁻¹)		132.20	99.11	106.10	58.05	80.99	81.79	73.06	133.10	97.41	175.20	101.60	114.10	176.20
Runoff (mm)		94	67	64	43	37	29	35	46	64	85	95	102	761
Rainfall (mm)		114	80	78	68	81	77	96	105	122	121	121	128	1191

Factors affecting flow regime: E
Station type: VA1982 runoff is 121% of previous mean
rainfall 118%

084009 Nethan at Kirkmuirhill**1982**Measuring authority CRPB
First year 1966Grid reference NS 809429
Level stn (m OD) 121.78Catchment area (sq km) 66.0
Max alt (m OD) 522**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	4.463	2.118	2.667	0.431	0.671	0.441	0.494	0.611	1.898	2.754	4.670	3.874	2.091
(m ³ s ⁻¹)	Peak	33.11	21.61	14.10	1.56	6.60	4.37	13.22	5.29	45.88	38.71	48.69	46.13	48.69
Runoff (mm)		181	78	108	17	27	17	20	25	75	112	183	157	1000
Rainfall (mm)		150	94	133	35	88	91	60	119	151	174	241	213	1549

Monthly and yearly statistics for previous record (Nov 1966 to Dec 1981)

Mean	Avg	2.393	1.889	1.805	1.015	0.852	0.523	0.439	0.556	1.214	1.937	2.662	2.227	1.457
flows	Low	1.374	0.910	0.515	0.310	0.199	0.230	0.159	0.144	0.162	0.167	0.866	0.916	1.093
(m ³ s ⁻¹)	High	4.850	3.217	3.542	2.191	1.989	1.671	1.214	1.965	2.547	3.764	5.125	5.153	1.882
Peak flow (m ³ s ⁻¹)		35.45	40.66	35.56	35.79	30.36	23.27	44.64	41.28	45.98	80.06	53.70	41.52	80.06
Runoff (mm)		97	70	73	40	35	21	18	23	48	78	105	90	696
Rainfall (mm)		125	84	81	54	82	70	84	74	109	123	134	99	1119

Factors affecting flow regime
Station type: CC1982 runoff is 144% of previous mean
rainfall 138%**085001 Leven at Linnbrane****1982**Measuring authority CRPB
First year 1963Grid reference NS 394803
Level stn (m OD) 4.30Catchment area (sq km) 784.3
Max alt (m OD) 1130**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	43.310	60.900	74.180	29.420	17.700	11.150	11.750	10.400	49.750	68.850	83.200	71.540	44.346
(m ³ s ⁻¹)	Peak	64.72	72.96	93.05	46.85	31.98	21.83	20.11	22.92	88.08	98.91	106.70	88.99	106.70
Runoff (mm)		148	188	253	97	60	37	40	36	164	235	275	244	1778
Rainfall (mm)		210	198	248	60	109	90	38	209	303	254	308	292	2319

Monthly and yearly statistics for previous record (Jul 1963 to Dec 1981)

Mean	Avg	59.280	52.800	43.440	31.940	26.160	22.270	19.270	21.520	34.450	52.030	58.930	59.670	40.087
flows	Low	29.410	18.610	16.630	10.550	10.620	9.716	10.370	9.605	9.429	10.830	24.540	36.270	30.712
(m ³ s ⁻¹)	High	119.100	102.100	98.420	51.390	51.100	51.860	30.690	40.070	64.980	90.150	96.320	91.240	49.875
Peak flow (m ³ s ⁻¹)		150.50	140.80	122.20	83.14	71.90	66.58	57.64	56.96	100.80	115.20	130.00	131.00	150.50
Runoff (mm)		207	164	148	106	89	74	66	73	114	178	195	204	1613
Rainfall (mm)		234	145	148	102	138	131	130	126	198	213	220	203	1988

Factors affecting flow regime
Station type: VA1982 runoff is 110% of previous mean
rainfall 117%**094001 Ewe at Poolewe****1982**Measuring authority HRPB
First year 1970Grid reference NG 859803
Level stn (m OD) 4.61Catchment area (sq km) 441.1
Max alt (m OD) 1014**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	22.270	42.390	40.560	13.350	27.690	4.674	7.884	25.920	57.270	28.030	53.880	56.950	31.739
(m ³ s ⁻¹)	Peak	174.50	105.00	56.21	23.89	61.76	10.39	11.96	82.23	86.34	46.21	101.60	96.77	124.50
Runoff (mm)		135	233	246	78	168	27	48	157	337	170	317	346	2262
Rainfall (mm)		220	196	240	105	162	27	88	302	325	199	378	374	2811

Monthly and yearly statistics for previous record (Oct 1970 to Dec 1981)

Mean	Avg	39.020	27.690	23.200	22.440	14.910	15.460	14.340	14.640	29.000	34.250	50.410	44.220	27.444
flows	Low	18.550	12.980	8.842	4.537	3.862	6.475	9.364	7.437	8.048	13.160	22.680	16.500	19.389
(m ³ s ⁻¹)	High	77.070	46.880	49.670	38.270	27.730	27.180	26.180	24.570	52.350	59.150	77.600	81.840	33.959
Peak flow (m ³ s ⁻¹)		147.60	104.50	103.50	68.43	65.63	64.43	33.92	36.47	109.20	119.00	136.10	120.20	147.60
Runoff (mm)		237	153	141	132	91	91	87	89	170	208	296	269	1983
Rainfall (mm)		253	174	169	128	112	142	137	131	232	281	363	292	2414

Factors affecting flow regime N
Station type: VA1982 runoff is 115% of previous mean
rainfall 108%**095001 Inver at Little Assynt****1982**Measuring authority HRPB
First year 1977Grid reference NC 147250
Level stn (m OD) 60.30Catchment area (sq km) 137.5
Max alt (m OD) 988**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	7.689	8.379	7.983	3.946	7.131	2.022	2.432	4.996	16.390	7.376	13.930	13.440	7.976
(m ³ s ⁻¹)	Peak	49.88	30.04	18.19	7.54	20.24	3.75	4.39	16.81	37.17	12.04	26.88	25.20	49.88
Runoff (mm)		150	147	156	74	139	38	47	97	309	144	263	262	1826
Rainfall (mm)		205	123	192	87	153	32	90	259	310	168	370	293	2282

Monthly and yearly statistics for previous record (Aug 1977 to Dec 1981)

Mean	Avg	11.090	7.150	8.260	4.986	3.549	4.159	6.088	5.198	11.390	15.220	17.220	10.310	8.723
flows	Low	6.949	5.045	4.402	3.453	1.660	3.092	4.273	3.394	5.263	6.227	13.010	4.631	8.410
(m ³ s ⁻¹)	High	19.950	11.330	13.250	7.552	6.247	4.805	10.340	8.002	14.730	21.180	23.960	17.580	10.784
Peak flow (m ³ s ⁻¹)		55.25	31.07	37.30	13.15	9.73	19.77	14.90	13.16	56.50	57.51	50.06	46.65	57.51
Runoff (mm)		216	127	161	94	69	78	119	101	275	297	325	201	2002
Rainfall (mm)		329	182	197	83	70	153	107	121	335	378	527	126	2608

Factors affecting flow regime N
Station type: VA1982 runoff is 91% of previous mean
rainfall 88%

096001 Halladale at Halladale**1982**Measuring authority: HRPB
First year: 1975Grid reference: NC 891561
Level stn. (m OD) 23 17Catchment area (sq km): 204.6
Max alt. (m OD): 580**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	8.576	1.624	5.757	1.060	5.272	0.272	0.349	1.635	7.663	5.662	9.683	10.270	4.819
(m ³ s ⁻¹)	Peak	74.02	6.55	50.43	6.01	78.78	0.51	2.87	25.28	95.73	53.53	65.88	62.23	95.73
Runoff (mm)		112	19	75	13	69	3	5	21	97	74	123	134	747
Rainfall (mm)		95	31	130	45	115	12	46	125	153	108	156	160	1176

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1981)

Mean	Avg	9.049	6.496	5.538	3.069	2.171	1.949	1.978	1.760	4.491	7.806	9.933	7.716	5.156
flows	Low	5.333	3.801	2.907	0.624	0.279	0.283	0.215	0.188	2.181	2.295	2.510	3.004	3.420
(m ³ s ⁻¹)	High	11.900	10.940	9.753	6.442	5.434	3.528	4.943	3.386	7.886	16.560	14.730	12.390	6.418
Peak flow (m ³ s ⁻¹)		83.60	68.52	106.90	53.18	108.00	46.89	129.10	76.31	189.10	126.00	163.20	115.40	189.10
Runoff (mm)		118	77	72	39	28	25	26	23	57	102	126	101	795
Rainfall (mm)		158	65	124	36	37	96	48	50	153	256	180	115	1318
(1981 only)														

Factors affecting flow regime: N
Station type: VA1982 runoff is 94% of previous mean
rainfall 89%**201007 Burn Dennet at Burdennet Bridge****1982**Measuring authority: DOEN
First year: 1975Grid reference: IC 372047
Level stn. (m OD) 2.00Catchment area (sq km): 145.3
Max alt. (m OD): 539**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	4.331	3.846	6.803	1.256	1.560	1.154	0.653	1.519	1.278	3.615	5.339	7.385	3.224
(m ³ s ⁻¹)	Peak	56.17	40.35	55.58	1.74	9.45	10.54	2.93	56.43	9.78	33.95	22.86	66.93	66.93
Runoff (mm)		80	64	125	22	29	21	17	28	22	67	95	136	701
Rainfall (mm)		73	85	132	17	85	82	18	110	77	123	137	170	1108

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1981—incomplete or missing months total 0.1 years)

Mean	Avg	6.844	4.948	4.063	2.394	2.414	1.755	2.066	1.742	3.658	4.861	5.923	6.025	3.888
flows	Low	4.633	2.652	2.491	1.638	0.914	0.898	1.068	0.614	0.692	2.852	3.368	4.074	2.833
(m ³ s ⁻¹)	High	8.234	7.714	5.308	3.615	3.905	2.708	4.098	4.031	6.470	8.642	8.494	8.534	4.603
Peak flow (m ³ s ⁻¹)		126	83	75	43	45	31	38	32	65	90	106	111	845
Runoff (mm)		121	74	96	53	82	76	86	62	115	124	121	105	1115
Rainfall (mm)														

Factors affecting flow regime: E
Station type: VA1982 runoff is 83% of previous mean
rainfall 99%**203010 Blackwater at Maydown Bridge****1982**Measuring authority: DOEN
First year: 1970Grid reference: IH 820519
Level stn. (m OD) 15.00Catchment area (sq km): 951.4
Max alt. (m OD): 362**Hydrometric statistics for 1982**

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg	38.980	22.750	40.570	3.882	2.326	6.364	2.782	1.682	4.061	16.810	50.090	46.380	19.723
(m ³ s ⁻¹)	Peak	103.20	59.57	87.96	7.31	4.02	34.28	14.40	11.77	13.38	40.38	81.79	102.20	103.20
Runoff (mm)		110	58	114	11	7	17	8	5	11	47	136	131	654
Rainfall (mm)		106	72	118	17	54	100	17	78	80	113	140	149	1044

Monthly and yearly statistics for previous record (Oct 1970 to Dec 1981)

Mean	Avg	32.130	25.720	20.260	11.130	8.247	5.981	3.423	5.898	9.813	16.530	27.420	28.420	16.205
flows	Low	17.470	13.030	8.362	3.399	1.435	1.031	1.048	0.686	1.945	2.003	10.100	10.270	9.954
(m ³ s ⁻¹)	High	47.630	52.550	42.850	29.050	18.610	17.480	7.378	12.880	28.200	31.960	52.720	50.660	19.604
Peak flow (m ³ s ⁻¹)		60.75	64.01	73.48	103.50	45.59	50.69	22.71	3.65	51.44	73.54	52.79	58.39	103.50
Runoff (mm)		90	66	57	30	23	16	10	17	27	47	75	80	538
Rainfall (mm)		105	82	80	51	65	57	70	71	93	88	106	88	956

Factors affecting flow regime: N
Station type: VA1982 runoff is 122% of previous mean
rainfall 109%

THE SURFACE WATER DATA RETRIEVAL SERVICE

The surface water archive comprises some 20,000 station years of daily river flows and incorporates data from over 1000 gauging stations throughout the United Kingdom. In addition to gauged flow data, naturalised data have been derived from the records of a small number of gauging stations. Catchment areal rainfall and the highest instantaneous flow, when available, are also archived on a monthly basis.

In order that the contents of the archive may be readily accessible, a suite of programs has been developed to provide a selection of retrieval options. Descriptions of these options are listed below, and examples of the computer output are given on pages 121 to 127. The data retrieval programs have been designed to allow flexibility in the presentation of a number of the options, particularly those producing graphical output. Before finalising a data request it is recommended that the concise register of gauging stations on pages 128 to 133, and the summary of archived data given on pages 134 to 141, be consulted to check the availability of suitable data sets.

In response to user requirements the data retrieval facilities are being continually extended. A wide range of specialist analyses and presentations is now available. Individuals having data requirements not catered for in the standard retrieval suite are invited to discuss their particular needs - address below.

Retrievals are normally available on line printer listings or magnetic tape, or as hydrograph plots.

Cost of Service

To cover the computing and handling costs, a

moderate charge will be made depending on the output options selected. Estimates of these charges may be obtained on request; the right to amend or waive charges is reserved.

Requests for retrieval options

Requests for retrieval options should include: the name and address to which the output should be directed, the gauging stations for which data are required together with the period of record of interest and the title of the required options. Where possible, a daytime telephone number should be given.

Requests should be addressed to:

Surface Water Archive
Institute of Hydrology
Maclean Building
Crowmarsh Gifford
WALLINGFORD
OXFORDSHIRE OX10 8BB

Telephone: Wallingford (0491) 38800

Hydrological Data at the Institute of Hydrology

The surface water archive is one of several major sources of hydrological data held at Wallingford. Others include an archive of flood peaks from over 600 catchments and a flood event archive comprising rainfall and river flows at short time intervals for over 3000 individual events. Data may be retrieved from these sources in a variety of formats. Enquiries concerning the availability and use of such data should be directed to the above address.

LIST OF SURFACE WATER RETRIEVAL OPTIONS

OPTION NUMBER	TITLE	NOTES
1	Table of daily mean gauged discharges	Includes monthly and annual summary statistics. Flows in cubic metres per second.
	Table of daily mean naturalised discharges	Includes monthly and annual summary statistics. Flows in cubic metres per second.
	Yearbook data tabulation (daily)	River flow and catchment rainfall data for a specified year together with basic gauging station details and flow statistics derived from the historical record.
	Table of monthly mean gauged discharges	Includes monthly and annual summary statistics. Flows in cubic metres per second.
	Table of monthly mean naturalised discharges	Includes summary statistics. Flows in cubic metres per second.

	Yearbook data tabulation (monthly)	Monthly river flow and catchment rainfall data for a specified year together with comparative statistics derived from the historical record.
	Table of monthly extreme flows	The lowest and highest daily mean flows, together with the highest instantaneous flow (when available). Flows in cubic metres per second. Includes summary statistics.
	Table of catchment monthly rainfall	Rainfall totals in millimetres and as a percentage of the 1941-70 catchment average. Includes summary statistics.
	Table of catchment monthly areal rainfall and runoff	Runoff is normally derived from the monthly mean gauged flow. An additional listing is provided for catchments with naturalised flow records. A monthly summary is provided and all rainfall and runoff totals are in millimetres.
10	Hydrographs of daily mean flows	Choices of scale, units, truncation level and overlay grid pattern are available. The period of record maximum and minimum flows, or the mean flow, may be included. The plots may be based on single or n-day means or on n-day running mean flows.
	Hydrographs of monthly mean flows	Choices of scale, unit and overlay grid pattern are available. The period of record maximum, minimum and mean flows may be included.
	Flow duration statistics	Tabulation of the 1-99 percentile flows with optional plot of the flow duration curve. The percentiles may be derived from daily flows or 'n' day averages and the analysis may be restricted to nominated periods within the year eg April-September only. Choices of scales, grid marking and units are available and the percentiles may be expressed as a percentage of the average flow or of a nominated flow.
	Table of gauging station reference information	Tabulation of selected gauging station details and catchment characteristics for nominated gauging stations.
	Table of hydrometric statistics	Provides a comparison between summary statistics for a selected year, or a group of years, and the corresponding statistics for a nominated period of record.
	Gauging station description	A brief summary of the gauging station, its history and major influences on the flow regime.

Examples of these fifteen options follow on pages 121 to 127.

OPTION 1 TABLE OF DAILY MEAN GAUGED DISCHARGES

050001 FAW AT UMBLETON		DAILY MEAN GAUGED DISCHARGES IN CUBIC METRES PER SECOND											
		1981											
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	19.190	10.920	37.280	13.900	8.922	16.710	3.006	3.249	1.272	39.130	44.220	33.430	
2	19.140	11.980	40.310	12.020	13.230	29.010	3.125	2.242	1.305	63.770	35.000	27.270	
3	23.450	41.450	28.700	10.850	18.080	16.470	3.240	1.919	1.235	105.200	29.010	23.160	
4	17.540	26.340	73.190	9.823	18.300	15.890	3.109	1.857	1.157	74.200	24.830	20.440	
5	15.950	27.470	21.020	6.913	17.550	13.640	3.043	2.091	1.109	58.640	20.230	17.890	
6	15.520	19.190	21.440	6.200	19.040	12.160	3.231	6.561	1.078	44.100	17.230	14.600	
7	13.830	17.750	33.840	7.679	12.730	11.390	2.662	4.332	1.079	33.600	15.170	31.070	
8	12.870	16.930	37.610	7.314	15.710	10.870	2.441	3.192	1.106	30.340	13.280	69.430	
9	16.180	20.830	223.400	7.043	13.770	9.451	2.783	2.787	1.096	33.360	17.630	41.100	
10	14.200	16.420	173.500	6.694	29.540	10.960	2.174	2.405	1.228	31.090	10.560	40.460	
11	11.690	15.290	136.900	7.144	17.620	17.580	2.037	2.200	1.830	30.730	10.360	69.490	
12	14.250	15.010	107.300	5.962	14.770	10.960	2.084	2.037	2.238	29.440	9.672	41.850	
13	15.650	15.250	95.870	5.422	12.960	9.766	2.115	1.920	2.268	23.360	8.364	104.300	
14	80.200	11.940	64.940	5.040	12.020	9.056	2.013	1.846	2.418	21.270	7.645	136.100	
15	59.900	11.250	47.040	4.826	18.840	8.388	1.993	1.810	4.032	34.710	7.235	74.980	
16	59.230	10.400	36.300	4.583	18.690	7.624	1.997	1.686	2.511	23.060	7.329	48.700	
17	59.010	9.654	28.140	4.267	33.340	7.013	1.939	1.584	4.231	26.540	8.770	35.680	
18	61.550	8.956	23.000	4.017	28.620	6.398	1.814	1.518	21.100	25.060	31.920	26.640	
19	51.280	8.265	19.490	3.848	21.890	5.996	1.918	1.597	42.080	32.680	45.490	22.240	
20	51.260	7.799	16.960	3.671	24.980	5.551	1.882	2.931	34.020	36.020	55.820	83.260	
21	57.170	13.540	54.130	3.520	18.270	4.922	2.531	2.170	23.510	57.400	41.600	40.630	
22	44.360	14.310	57.040	3.454	16.660	4.532	8.875	1.867	17.760	42.990	32.140	29.310	
23	36.600	31.950	44.340	3.320	18.970	4.320	5.221	1.777	14.530	32.740	27.840	21.160	
24	32.140	16.980	39.990	3.736	23.800	4.180	3.578	1.605	20.270	79.240	22.910	16.880	
25	25.910	14.590	38.440	4.100	31.200	3.912	2.786	1.512	16.820	100.000	19.190	16.110	
26	21.570	15.820	49.640	10.110	25.570	3.759	2.607	1.422	15.610	63.880	19.850	18.300	
27	16.590	24.220	32.660	24.990	24.870	3.541	2.319	1.355	15.740	49.610	35.840	42.330	
28	16.460	22.710	26.900	13.750	20.850	3.346	2.151	1.310	12.660	40.030	38.720	65.270	
29	14.910		22.310	14.700	18.340	3.165	2.000	1.279	12.950	58.140	30.400	74.130	
30	13.180		18.380	10.390	16.400	3.035	1.692	1.246	16.330	60.950	44.110	68.900	
31	11.850		15.890		15.370		2.710	1.224		52.660		53.840	
MISSING DAYS 0 0 0 0 0 0 0 0 0 0 0 0 0													
MEAN		29.827	16.857	52.144	7.776	19.552	9.114	2.749	2.208	9.896	47.732	24.213	46.348
MIN		11.690	7.799	15.890	3.320	4.922	3.035	1.814	1.224	1.078	21.270	7.235	16.110
MAX		80.200	43.450	223.400	24.990	33.340	29.010	8.875	8.561	42.080	105.200	55.820	136.100
MONTHLY TOTALS (CUMEC DAYS)													
		924.64	471.99	1616.45	233.29	606.10	275.42	85.23	68.44	296.87	1479.68	726.39	1436.79
SUMMARY: MAX 223.400 ON 9 MAR													
MIN 1.078 ON 6 SEP													
MEAN 22.519													

OPTION 2 TABLE OF DAILY MEAN NATURALISED DISCHARGES

039001	THAMES AT KINGSTON					DAILY MEAN NATURALISED DISCHARGES IN CUBIC METRES PER SECOND							
1981													
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	73.100	67.000	83.100	228.000	104.000	99.200	57.600	72.200	31.700	113.000	85.400	82.800	
2	71.700	66.200	159.000	227.000	86.200	192.000	50.700	50.800	31.000	104.000	64.000	72.400	
3	67.600	68.300	212.000	192.000	87.300	209.000	50.700	52.200	31.700	80.500	76.600	66.600	
4	65.700	79.100	196.000	135.000	96.700	142.000	48.700	42.500	30.900	77.800	63.600	69.100	
5	65.200	81.100	134.000	132.000	93.400	106.000	48.900	40.600	29.000	72.100	68.100	68.000	
6	68.500	63.000	127.000	117.000	84.000	102.000	45.600	120.000	29.200	93.300	61.100	69.400	
7	69.300	60.200	128.000	115.200	81.800	91.100	45.500	125.000	29.600	111.000	61.800	72.400	
8	74.300	62.700	189.000	109.000	76.200	93.400	46.600	79.100	33.300	75.400	61.000	116.000	
9	74.000	63.200	216.000	96.300	77.600	89.100	45.100	67.600	29.700	79.100	60.600	127.000	
10	75.700	65.700	242.000	105.000	92.800	82.000	45.500	64.400	28.300	79.100	57.100	104.000	
11	82.300	67.800	267.000	101.000	97.100	90.300	39.800	60.600	31.300	78.400	57.600	98.900	
12	80.300	67.300	277.000	97.900	89.900	87.100	44.900	36.500	39.100	78.600	57.500	87.000	
13	76.700	63.500	273.000	96.000	74.000	78.300	42.800	40.100	37.700	63.600	57.200	90.100	
14	76.800	61.000	289.000	120.000	71.400	73.800	41.200	41.500	38.500	67.200	55.400	230.000	
15	99.400	56.700	274.000	114.000	77.700	70.300	43.200	40.600	48.600	67.600	53.100	314.000	
16	107.000	59.900	253.000	84.900	92.300	69.300	40.800	38.600	41.300	86.700	56.600	279.000	
17	111.000	55.500	218.000	85.100	91.200	67.600	41.600	37.000	36.300	69.600	73.700	228.000	
18	121.000	55.300	160.000	80.900	93.100	65.400	42.000	37.700	39.500	85.700	96.800	145.000	
19	112.000	54.500	139.000	74.200	92.200	66.300	41.600	37.600	49.600	81.300	97.600	116.000	
20	109.000	56.300	127.000	76.500	100.000	64.400	41.400	37.400	104.000	136.000	121.000	110.000	
21	109.000	51.100	117.000	75.100	122.000	64.200	40.300	36.200	67.300	179.000	146.000	156.000	
22	113.000	53.800	173.000	75.300	102.000	59.800	55.700	36.400	61.600	167.000	131.000	182.000	
23	111.000	58.100	208.000	73.100	90.400	61.000	55.400	36.100	40.100	102.000	97.900	132.000	
24	95.600	60.100	204.000	72.400	111.000	61.700	55.300	35.100	42.700	92.600	90.400	101.000	
25	86.100	59.200	204.000	79.500	177.000	61.000	48.000	34.900	51.900	94.100	72.000	102.000	
26	78.800	61.000	203.000	128.000	266.000	57.100	47.400	32.800	131.000	107.000	75.600	99.300	
27	77.500	61.000	161.000	183.000	267.000	57.700	39.300	34.300	162.000	90.900	74.800	94.800	
28	72.500	64.800	131.000	194.000	212.000	57.400	37.800	32.700	98.300	85.500	100.000	111.000	
29	71.800		135.000	174.000	171.000	54.200	39.400	32.400	73.600	80.500	89.500	218.000	
30	71.700		145.000	140.000	122.000	50.700	37.500	32.200	101.000	81.400	67.700	295.000	
31	67.500		204.000		108.000		44.500	30.300		82.100		264.000	
MISSING DAYS 0 0 0 0 0 0 0 0 0 0 0 0 0													
MEAN		85.003	62.336	189.455	119.373	113.203	64.113	45.090	48.245	53.247	91.045	79.030	138.116
MIN		65.200	53.100	83.100	72.400	71.400	50.700	37.500	30.300	28.300	63.600	53.100	66.600
MAX		121.000	81.100	289.000	228.000	267.000	209.000	55.700	125.000	162.000	179.000	146.000	314.000
MONTHLY TOTALS (CUMEC DAYS)													
		2635.10	1745.40	5873.10	3581.20	3509.30	2523.40	1397.80	1495.60	1597.40	2822.40	2370.90	4281.60
SUMMARY: MAX 314.000 ON 15 DEC													
MIN 65.200 ON 12 SEP													
MEAN 87.694													

OPTION 3 YEARBOOK DATA TABULATION (DAILY)

0 0 0 1

T a w a t J a m b e r l e i g h

1 9 8 2

Measuring authority: SNMA

Grid reference: S5608237

Catchment area (sq km): 826.2

First year: 1958

Level etc. (m OD): 14.14

Max alt. (m OD): 604

DAILY MEAN GAUGED DISCHARGES (cubic metres per second)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	55.540	16.580	32.590	8.793	2.961	1.481	3.408	2.565	2.481	11.570	12.902	18.040
2	44.350	14.980	47.170	8.223	2.905	1.404	3.217	2.355	2.499	16.530	12.920	15.860
3	39.740	13.270	71.030	7.983	3.454	1.824	2.920	2.179	2.266	17.900	11.200	13.900
4	43.330	12.030	45.610	7.400	3.646	1.883	2.644	2.037	2.252	24.500	13.800	12.580
5	61.630	29.340	34.130	7.512	3.957	1.468	2.492	2.248	2.142	28.110	15.990	12.900
6	47.220	20.770	68.100	8.518	4.265	1.327	2.325	2.978	2.354	24.700	36.590	12.130
7	37.700	20.410	63.780	17.120	3.157	1.263	2.215	2.347	2.468	19.050	124.100	44.020
8	70.390	18.880	49.510	10.250	2.891	1.204	2.000	2.012	2.319	16.200	96.670	36.800
9	64.400	17.310	62.320	7.853	2.742	1.193	2.507	1.907	2.242	4.040	53.580	104.300
10	38.680	16.780	75.100	7.298	2.652	1.170	2.247	1.940	2.105	14.970	43.560	132.400
11	28.550	38.260	51.800	6.697	2.494	1.511	13.560	1.806	1.979	39.210	41.030	105.300
12	22.210	32.620	58.890	6.468	2.349	2.070	77.330	1.693	1.939	29.550	117.600	97.190
13	16.400	30.180	39.020	8.125	2.285	1.670	25.960	2.917	1.802	31.830	105.900	60.400
14	16.590	23.040	35.220	5.856	2.221	1.375	25.070	2.937	1.712	26.160	65.790	81.660
15	34.080	19.950	101.000	5.622	2.218	1.229	16.550	5.925	1.718	22.720	59.250	78.900
16	111.600	17.310	92.820	5.272	2.254	1.213	12.270	3.144	1.655	39.350	51.730	70.870
17	77.900	15.720	61.230	4.995	2.139	1.165	9.724	2.562	1.614	37.310	50.120	85.400
18	61.970	14.420	43.950	4.840	2.376	2.345	6.104	3.979	1.546	30.180	58.710	61.470
19	48.630	12.680	41.410	4.612	2.040	3.246	6.760	3.467	1.595	25.920	54.270	170.000
20	38.170	11.330	52.000	4.427	2.310	1.932	5.789	2.564	1.743	36.880	45.640	97.780
21	34.560	15.330	38.170	4.270	2.077	1.546	5.126	2.188	2.211	56.460	87.420	66.540
22	32.700	19.450	27.910	4.165	2.815	2.356	4.590	2.137	2.249	39.990	60.730	47.950
23	26.630	12.080	23.870	3.903	2.596	6.278	4.210	2.229	2.293	30.220	55.170	50.290
24	26.710	11.770	21.070	3.692	2.238	4.357	4.015	2.342	12.840	24.060	63.740	54.570
25	24.830	16.350	18.340	3.546	2.031	3.678	3.669	2.694	10.620	20.490	55.550	42.160
26	39.890	13.660	16.050	3.408	1.845	9.491	3.249	2.486	7.515	17.240	45.080	35.450
27	29.140	13.970	14.190	3.286	1.756	6.750	2.986	2.883	14.970	14.320	35.870	29.480
28	27.260	19.720	12.550	3.187	1.863	5.362	2.764	2.257	12.460	12.260	33.590	24.210
29	24.700		11.280	3.126	1.609	5.605	2.646	2.073	12.590	10.990	24.300	22.670
30	21.050		10.050	3.074	1.508	4.099	2.507	2.637	10.050	9.866	25.420	17.980
31	18.170		9.077		1.477		2.585	2.652		9.246		16.360
Average	40.860	18.540	42.170	6.041	2.462	2.723	8.563	2.585	4.278	24.260	52.830	55.450
Lowest	16.590	11.330	9.077	3.074	1.477	1.165	2.050	1.693	1.546	9.246	11.200	12.130
Highest	111.600	38.260	101.000	17.120	4.265	9.491	77.330	5.925	14.970	56.460	124.100	170.000
Peak flow	127.600	55.380	143.900	23.890	5.538	12.480	162.200	7.727	25.400	72.350	215.100	241.100
Day of peak	16	13	15	7	6	27	12	15	24	17	19	19
Monthly total (million cu m)	109.40	44.84	112.90	15.66	6.59	7.06	22.94	6.92	11.09	64.98	136.90	148.50
Runoff (mm)	132	54	137	19	8	9	28	8	13	79	166	160
Rainfall (mm)	106	78	143	24	37	116	67	47	41	129	192	179

STATISTICS OF MONTHLY DATA FOR PREVIOUS RECORD (Oct 1958 to Dec 1981)

	Avg.	34.490	29.840	20.620	13.730	9.404	5.488	4.782	5.648	8.228	18.950	27.980	36.080
Mean flow:	Low	6.657	3.244	7.918	3.889	2.073	1.434	0.796	0.423	0.661	1.043	3.653	13.210
	(year)	1963	1959	1962	1974	1976	1976	1976	1976	1959	1978	1978	1963
	High	50.890	54.760	52.140	52.800	27.140	16.630	23.390	14.440	47.670	77.360	58.300	73.670
	(year)	1965	1970	1981	1966	1969	1972	1968	1965	1974	1963	1963	1965
Runoff:	Avg.	112	88	67	43	30	17	18	18	26	61	88	117
	Low	22	10	26	12	7	5	3	1	3	3	11	43
	High	165	160	169	103	72	52	76	47	150	251	184	239
Rainfall:	Avg.	127	91	89	70	72	66	74	87	93	112	127	137
	Low	28	5	16	6	28	10	23	33	14	14	56	41
	High	216	173	183	145	144	164	152	140	247	276	239	271

SUMMARY STATISTICS

	FOR 1982	FOR RECORD PRECEDING 1982	1982 AS 2 OF PRE-1982
Mean flow (m3/s)	21.810	17.890	
Lowest yearly mean		11.310	1964
Highest yearly mean		27.590	1960
Lowest monthly mean	2.462	0.423	Aug 1976
Highest monthly mean	55.450	77.360	Oct 1960
Lowest daily mean	1.165	0.200	28 Aug 1976
Highest daily mean	170.000	363.800	4 Dec 1960
Peak	241.100	644.900	4 Dec 1960
10 Yr	59.730	45.930	130
50 Yr	12.030	9.472	127
95 Yr	1.612	1.250	129
Annual total (million cu m)	687.80	564.60	122
Annual runoff (mm)	832	683	122
Annual rainfall (mm)	1239	1145	108
[1961-70 rainfall average (mm)]		1183]	

FACTORS AFFECTING FLOW REGIME

- * Reservoir(s) in catchment.
- * Abstraction for public water supplies.
- * Augmentation from effluent returns.

STATION DESCRIPTION

Velocity-area station

OPTION 4 TABLE OF MONTHLY MEAN GAUGED DISCHARGES

050001 TAW AT CROZELLEN

MONTHLY MEAN GAUGED DISCHARGES IN CUBIC METRES PER SECOND

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1979	30.918	32.905	44.410	35.654	12.801	7.879	1.956	11.910	5.314	9.371	36.082	51.477
1980	28.179	43.819	27.454	14.687	2.415	9.840	8.788	5.630	11.427	40.530	26.949	33.352
1981	29.826	16.857	52.143	7.777	19.551	9.113	2.748	2.209	9.897	47.732	74.212	46.347
1982	40.883	18.538	42.171	6.040	2.482	2.722	8.563	7.505	4.278	24.758	57.833	55.450
1983	48.920	19.180	14.436	17.895	36.998	4.422	1.650	0.836	3.245	14.976	11.134	46.906
1984	62.101	36.469	7.449	5.457	2.255	1.329	0.793	0.807	3.589	20.636	49.390	37.380
MEAN	40.134	27.961	31.344	17.218	12.747	5.893	4.083	3.995	6.297	26.751	33.767	43.152
MIN	28.179	16.857	7.449	5.457	2.255	1.329	0.793	0.807	3.245	9.371	11.134	33.352
MAX	62.101	43.819	52.143	17.895	36.998	9.840	8.788	11.910	11.427	47.732	57.833	55.450

THE SUMMARY RELATES EXCLUSIVELY TO THE YEARS SHOWN.

OPTION 5 TABLE OF MONTHLY MEAN NATURALISED DISCHARGES

059001 FRAMES AT KINGSTON

MONTHLY MEAN NATURALISED DISCHARGES IN CUBIC METRES PER SECOND

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1979	125.700	168.700	203.200	185.700	135.900	108.600	45.960	42.090	30.640	36.450	46.670	145.600
1980	145.100	167.200	137.600	106.700	49.660	45.830	40.200	37.400	38.010	75.430	75.540	90.620
1981	88.970	60.530	189.300	121.900	118.400	84.170	40.660	44.610	51.900	95.810	78.220	142.200
1982	198.100	123.700	187.000	90.960	55.630	46.920	38.690	31.290	31.940	89.340	129.600	177.100
1983	126.500	110.900	84.870	128.400	137.400	82.660	43.670	34.580	35.280	36.280	39.100	78.590
1984	144.600	129.200	105.000	67.860	61.060	44.490	26.700	26.100	31.600	40.130	104.900	126.100
MEAN	138.078	125.872	152.828	117.253	92.998	68.778	39.313	36.012	36.562	62.572	79.005	126.702
MIN	88.970	60.530	84.870	67.860	49.660	44.490	26.700	26.100	30.640	36.450	39.100	78.590
MAX	198.100	168.700	203.200	185.700	137.400	108.600	45.960	44.610	51.900	95.810	129.600	177.100

THE SUMMARY RELATES EXCLUSIVELY TO THE YEARS SHOWN.

OPTION 6 YEARBOOK DATA TABULATION (MONTHLY)

050001

Taw at Crozellen

1982

Measuring authority: SWSA

Grid reference: S5008237

Catchment area (sq km): 826.2

First year: 1958

Level sta. (m OD): 14.14

Max alt. (m OD): 604

HYDROMETRIC STATISTICS FOR 1982

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Flows	Avg.	40.860	18.540	42.170	6.041	2.462	2.723	8.563	2.585	4.278	24.260	52.830	55.450	21.730
(m ³ /s):	Peak	127.60	55.38	143.90	23.89	5.54	12.48	162.20	7.73	25.40	72.35	215.20	241.10	241.10
Runoff	(mm)	132	54	137	19	8	9	28	8	13	79	188	180	833
Rainfall	(mm)	106	78	143	24	37	116	67	87	81	129	192	179	1239

MONTHLY AND YEARLY STATISTICS FOR PREVIOUS RECORD (Oct 1958 to Dec 1981)

Mean	Avg.	34.490	29.840	20.620	13.730	9.404	5.488	4.782	5.648	8.228	18.950	27.982	36.080	17.891
flows	Low	6.857	3.244	7.918	3.889	2.073	1.434	0.796	0.423	0.881	1.043	3.653	13.210	11.312
(m ³ /s)	High	50.890	54.740	52.140	32.800	22.140	16.630	23.390	14.440	47.670	77.360	58.500	73.670	27.587
Peak flow	(m ³ /s)	580.60	278.40	319.80	149.40	91.74	180.10	206.00	183.50	312.30	422.10	249.70	644.90	644.90
Runoff	(mm)	112	88	67	43	30	17	16	16	26	61	88	117	683
Rainfall	(mm)	127	91	89	20	72	66	74	87	93	112	127	137	1145

Factors affecting flow regime: S P E

Station type: VA

1982 runoff is 122% of previous mean
rainfall 106%

OPTION 7 TABLE OF MONTHLY EXTREME FLOWS

050001 TAW AT UNDERLEIGH

TABLE OF MONTHLY INSTANTANEOUS PEAK DISCHARGES AND
HIGHEST AND LOWEST DAILY MEAN GAUGED DISCHARGES
IN CUBIC METRES PER SECOND

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1978 HI	192.600	216.700	97.510	53.100	70.040	3.504	9.965	26.430	1.737	1.386	21.980	94.700
HI	116.900	184.000	87.000	46.030	37.000	3.037	5.039	11.110	1.499	1.314	12.040	71.940
LO	13.540	6.162	13.490	5.923	2.752	1.382	1.656	1.709	1.035	0.689	0.881	3.926
1979 HI	95.310	150.800	106.700	30.700	55.430	20.550	5.994	69.190	18.710	61.830	85.940	354.100
HI	66.420	121.900	92.120	26.330	31.630	14.630	4.143	37.570	10.640	35.450	67.010	208.400
LO	12.430	10.040	11.390	8.787	6.746	3.249	1.201	1.541	2.799	3.894	12.730	13.710
1980 HI	113.400	170.200	127.300	136.600	5.565	84.430	32.830	20.430	68.730	160.400	173.000	106.300
HI	85.420	123.600	87.090	94.790	4.795	52.430	19.620	12.250	41.480	119.300	114.600	82.790
LO	10.630	13.980	10.330	3.365	1.585	1.303	4.902	3.158	4.311	7.634	6.078	10.270
1981 HI	149.700	80.990	339.900	32.560	50.860	54.120	14.080	11.550	95.070	123.900	90.340	256.000
HI	80.200	43.450	223.400	24.990	33.340	29.010	8.875	8.561	42.080	105.200	55.820	136.100
LO	11.490	7.799	15.890	3.320	8.922	3.035	1.814	1.224	1.078	21.270	7.235	16.110
1982 HI	127.600	55.580	143.900	23.890	5.538	12.480	162.200	7.727	25.400	72.350	215.200	241.100
HI	111.600	38.260	101.000	17.120	4.265	9.491	77.330	5.925	14.970	56.460	124.300	170.000
LO	16.590	17.330	9.077	3.074	1.477	1.165	2.000	1.693	1.546	9.246	11.700	12.130
MAX HI	192.600	216.700	339.900	136.600	70.040	84.430	162.200	69.190	95.070	160.400	215.200	354.100
MAX HI	116.900	184.000	223.400	94.790	37.000	52.430	77.330	42.080	119.300	124.300	208.400	208.400
MIN LO	10.630	6.162	9.077	3.074	1.477	1.165	1.201	1.224	1.035	0.689	0.881	3.926

THE SUMMARY RELATES EXCLUSIVELY TO THE YEARS SHOWN.

HI = HIGHEST INSTANTANEOUS DISCHARGE
HI = HIGHEST DAILY MEAN GAUGED DISCHARGE
LO = LOWEST DAILY MEAN GAUGED DISCHARGE

OPTION 8 TABLE OF CATCHMENT MONTHLY RAINFALL

050001 TAW AT UNDERLEIGH

MONTHLY RAINFALL AND
RUNOFF (DERIVED FROM GAUGED FLOWS)
EXPRESSED IN MM OVER THE CATCHMENT

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1978 RAINFALL	160	146	114	51	49	61	95	42	39	14	68	174
RUNOFF	133	143	103	40	33	7	10	13	4	3	11	97
1979 RAINFALL	110	72	164	68	102	52	45	126	49	100	122	192
RUNOFF	100	96	144	49	42	25	6	39	17	30	113	167
1980 RAINFALL	99	130	131	24	43	164	65	69	101	175	107	115
RUNOFF	91	133	89	45	8	31	28	18	36	131	91	108
1981 RAINFALL	90	76	183	47	126	42	78	35	153	200	85	173
RUNOFF	97	49	169	24	63	29	9	7	31	155	76	150
1982 RAINFALL	106	78	143	24	37	116	67	87	81	129	192	179
RUNOFF	132	54	137	19	8	9	28	8	13	79	166	180
RAINFALL	113	100	147	43	71	87	70	72	65	124	115	167
MEAN	90	72	114	24	37	42	45	35	39	14	68	115
MAX	160	146	183	68	126	164	95	126	153	200	192	192
RUNOFF	111	95	129	35	31	20	16	17	20	60	91	140
MEAN	91	49	89	19	8	7	6	7	4	3	11	97
MIN	133	143	169	49	63	31	28	39	36	155	166	180
MAX	98	95	88	81	44	23	23	24	24	85	79	84
MEAN	83	64	68	51	19	6	11	9	10	71	16	56
MIN	>100	>100	96	>100	67	69	63	31	36	78	93	>100

THE SUMMARY RELATES EXCLUSIVELY TO THE YEARS SHOWN.

OPTION 9 TABLE OF CATCHMENT MONTHLY AREAL RAINFALL AND RUNOFF

050001 TAW AT UNDERLEIGH

AREAL AVERAGE RAINFALL EXPRESSED IN MM
& AS A PERCENTAGE OF LONG TERM MEAN

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1978 RAINFALL (MM)	160	146	114	51	49	61	95	42	39	14	68	174
% 1941-70 MEAN	126	159	144	71	60	100	116	41	38	12	51	128
1979 RAINFALL (MM)	110	72	164	68	102	52	45	126	49	100	122	192
% 1941-70 MEAN	87	78	208	94	126	85	55	124	47	84	91	141
1980 RAINFALL (MM)	99	130	131	24	43	164	65	69	101	175	107	115
% 1941-70 MEAN	78	141	166	33	53	269	79	68	97	155	80	85
1981 RAINFALL (MM)	90	76	183	47	126	42	78	35	153	200	85	173
% 1941-70 MEAN	71	83	232	65	156	69	95	34	147	177	63	127
1982 RAINFALL (MM)	106	78	143	24	37	116	67	87	81	129	192	179
% 1941-70 MEAN	83	85	181	33	46	190	82	65	78	114	143	132
RAINFALL (MM)	113	100	147	43	71	87	70	72	65	124	115	167
MEAN	90	72	114	24	37	42	45	35	39	14	68	115
MAX	160	146	183	68	126	164	95	126	153	200	192	192

THE SUMMARY RELATES EXCLUSIVELY TO THE YEARS SHOWN.

OPTION 10 HYDROGRAPH OF DAILY MEAN FLOWS

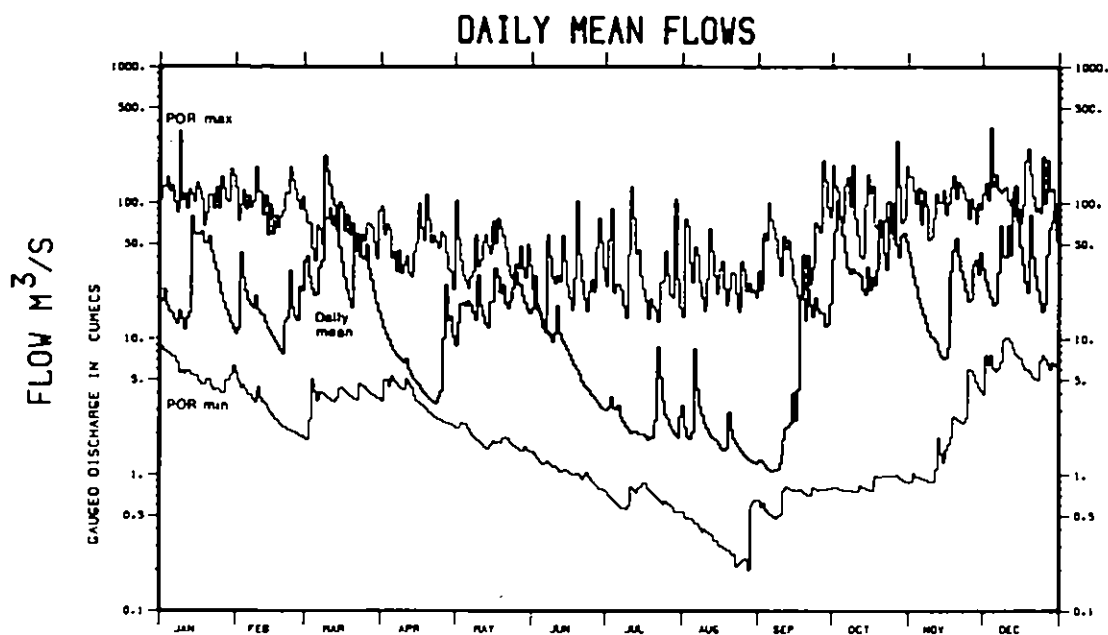
050001

TAW AT UMBERLEIGH

1981

Previous record 1958-1980

Catchment area 826.2 km



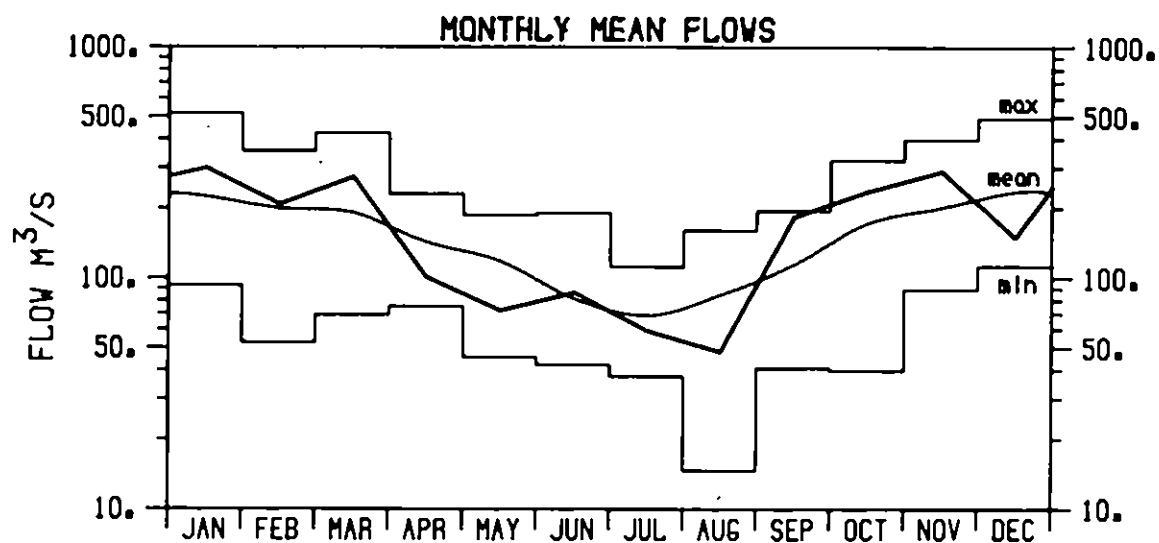
OPTION 11 HYDROGRAPH OF MONTHLY MEAN FLOWS

15006

TAY AT BALLATHIE

1981

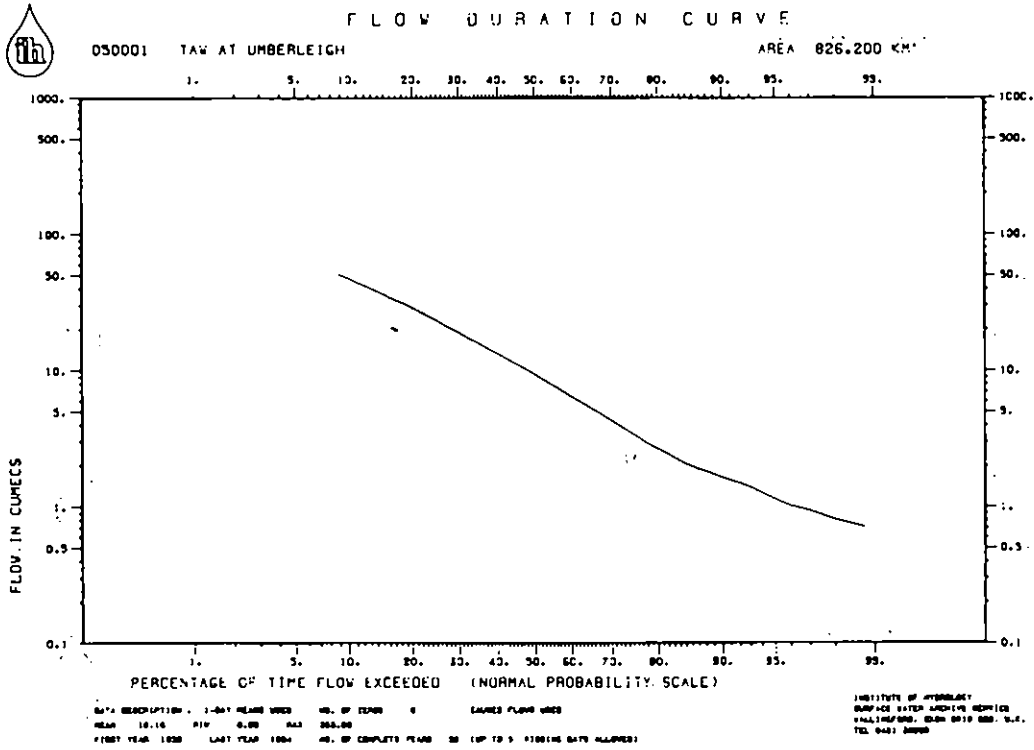
Previous record 1953-1980

Catchment area 4587.1 km²

OPTION 12 FLOW DURATION STATISTICS

FLOW DURATION TABLE

050001	TAW AT UMBERLEIGH										GAUGED FLOWS USED										
1 DAY MEAN FLOW EXCEEDED STATED AMOUNT IN CUMECs FOR GIVEN PERCENTAGE OF TIME																					
	0		2		4	5	6		8	9											
		112.407	88.953	78.112	70.827	64.442	59.554	56.175	53.098	50.146											
10	47.474	44.176	41.967	39.864	37.968	36.202	34.286	32.813	31.533	30.169											
20	28.878	27.620	26.450	25.366	24.302	23.328	22.350	21.282	20.533	19.756											
30	19.052	18.294	17.592	16.975	16.450	15.836	15.263	14.737	14.189	13.691											
40	13.254	12.847	12.340	11.914	11.529	11.129	10.807	10.436	10.088	9.725											
50	9.366	9.020	8.678	8.392	8.073	7.801	7.535	7.219	6.945	6.673											
60	6.428	6.187	5.971	5.755	5.522	5.313	5.090	4.900	4.691	4.492											
70	4.292	4.101	3.916	3.738	3.564	3.398	3.239	3.055	2.915	2.783											
80	2.659	2.534	2.418	2.287	2.178	2.071	1.976	1.890	1.822	1.734											
90	1.647	1.567	1.493	1.391	1.268	1.142	1.019	0.941	0.868	0.805											
MAX FLOW= 343.800			MIN FLOW= 0.200			MEAN FLOW= 18.160			CATCHMENT AREA 826.2 SQ. KM												
NUMBER OF ZEROS= 0			NUMBER OF VALUES USED= 9497																		
FIRST YEAR USED= 1959			LAST YEAR USED= 1984																		
NUMBER OF YEARS USED= 26																					
ONLY YEARS CONTAINING NOT MORE THAN 5 MISSING DAYS USED																					



OPTION 13 TABLE OF GAUGING STATION REFERENCE INFORMATION

NUMBER	RIVER	STATION	GAGE REF	OPERATOR	RECORDED 1ST YEAR	LAST YEAR	STN TYPE	BASIN AREA SQ KM	LEVEL STN MVD	NAI ALT MVD	ABSTRACT- TIONS & REMARKS
048001	POVEY	TRILIVE STEPS	S2227696	SNA	1969		CC	36.8	167.86	420	SAPC
048003	FAL	TRILGONY	S2921447	SNA	1977		FLVA	67.0	6.95	226	GLI
048004	WARLEGGAN	TRILGONY FE	S2159674	SNA	1969		CC	25.3	70.26	306	C
048005	KENWYN	TRILG	S2670450	SNA	1968		CC	19.1	7.16	152	C
048006	CUBER	HELSTON	S2654271	SNA	1968		YA	40.1	4.69	251	PC 1
048007	KENHALL	MORSARUOTH	S2762377	SNA	1968		C	26.6	13.56	251	SAPC 1
048009	ST MLOT	CRAIGSMILL WOOD	S2184662	SNA	1971		CC	22.7	70.53	339	GL
048010	SEATON	TREBROVNBIDGE	S2799596	SNA	1972		CC	36.1	26.60	369	C 1
048011	POVEY	RESTORHEL TWO	S2098624	SNA	1972		CC	169.1	9.26	420	SAPC 1

OPTION 14 TABLE OF HYDROMETRIC STATISTICS

STATION NUMBER	TRM	AGE 1941 1970 MM	ANNUAL RAIN MM	ANNUAL GAUGED RUNOFF MM	MEAN GAUGED FLOW CU M/S	NO. YES REC	EXPOS MEAN FLOW	HIGHEST DAILY MEAN CU M/S	DATE	LOWEST DAILY MEAN CU M/S	DATE	10 YEAR CU M/S	50 YEAR CU M/S	95 YEAR CU M/S
021005	PUR	1320	1250	676	7.99	15	185.50	30/01/74	1.19	07/10/72	16.20	5.39	1.97	
	1977		1436	829	9.80		123	92.38	31/10	1.39	22/06	20.26	7.03	1.65
	1978		1317	757	8.95		112	75.74	15/11	1.75	19/06	20.23	6.03	2.25
	1979		1367	913	10.80		135	82.15	26/11	2.23	23/07	24.29	6.77	2.60
	1980		1288	793	9.36		117	49.29	24/11	2.01	01/06	19.96	7.00	2.19
021006	POR	1227	1180	694	32.99	15	393.40	30/01/74	3.46	07/10/72	66.79	22.22	6.23	
	1977		1277	845	40.20		122	555.30	31/10	4.13	18/08	84.42	29.40	5.44
	1978		1264	731	34.77		105	320.30	15/11	5.62	20/06	78.17	22.26	7.01
	1979		1230	861	41.90		127	262.70	26/11	7.21	23/07	93.82	27.44	6.51
	1980		1187	746	35.48		108	171.60	20/11	6.37	19/05	78.63	24.91	7.46
021007	POR	1413	1321	878	13.89	15	209.80	30/01/74	0.57	07/09/76	31.59	8.50	1.71	
	1977		1524	1108	17.54		126	288.30	31/10	0.87	18/08	41.40	10.44	1.11
	1978		1394	886	14.02		101	210.60	15/11	0.97	19/07	32.60	8.24	1.21
	1979		1420	1105	17.48		125	120.90	26/11	1.42	24/07	41.36	10.63	1.83
	1980		1366	944	14.93		107	98.07	20/11	1.18	19/05	35.27	9.16	1.55
021008	PUR	1006	949	504	17.74	16	308.66	06/03/63	1.71	27/08/76	38.44	11.05	2.69	
	1977		1019	604	21.25		120	167.20	31/10	1.49	17/06	44.36	14.81	2.56
	1978		1068	541	19.03		107	177.90	15/11	2.04	20/07	43.36	11.09	2.53
	1979		1065	693	24.40		136	273.10	25/03	2.22	05/08	55.84	15.31	3.67
	1980		962	586	20.62		116	122.00	20/11	3.35	03/06	43.15	14.30	4.14

NOTE: This example illustrates only a limited amount of the statistical information that may be output.

OPTION 15 GAUGING STATION DESCRIPTION

48001	POVEY AT TRILIVE STEPS	Compound Crump weir. Total crest breadth 7.0 m. Low flow crest breadth 1.5 m. Unreliable records from 1951
48003	FAL AT TRILGONY	Velocity-area station with low flow flume. Unreliable records from 1961
48004	WARLEGGAN AT TRILGONY FE	Compound Crump weir. Total crest breadth 10.0 m. Low flow crest breadth 1.5 m
48005	KENWYN AT TRILG	Compound Crump weir. Total crest breadth 4.3 m. Low flow crest breadth 3.2 m
48006	CUBER AT HELSTON	Velocity-area station. Modified in 1977 by the construction of a low level bed control
48007	KENHALL AT MORSARUOTH	Single crest Crump weir 4.5 m broad
48009	ST MLOT AT CRAIGSMILL WOOD	Compound Crump weir. Total crest breadth 7.2 m. Low flow crest breadth 1.8 m
48010	SEATON AT TREBROVNBIDGE	Compound Crump weir. Total crest breadth 11.0 m. Low flow crest breadth 3.0 m
48011	POVEY AT RESTORHEL TWO	Compound Crump weir. Total crest breadth 16.5 m. Low flow crest breadth 3.5 m

Concise Register of Gauging Stations

Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
002001	Halmsdale	NC 997181	HRPB	551.4	020005	Burns Water	NT 457688	FRPB	93.0
003001	Shin	NC 581062	NSHE	494.6	020006	Bell Water	NT 645768	FRPB	51.8
003002	Carron	NM 490920	HRPB	241.1	020007	Gifford Water	NT 511717	FRPB	64.0
003003	Oykel	NC 403001	HRPB	330.7	021001	Fruid Water	NT 088205	LRWD	23.7
003004	Cassley	NC 472022	HRPB	187.5	021002	Whitadder Water	NT 663633	LRWD	45.6
003005	Shin	NM 574974	HRPB	575.0	021003	Tweed	NT 257400	TWRP	694.0
004001	Canon	NH 482547	HRPB	961.8	021004	Watch Water	NT 664566	BRWD	10.7
004003	Ainess	NH 654695	HRPB	201.0	021005	Tweed	NT 208397	TWRP	373.0
004004	Blackwater	NH 455563	HRPB	336.7	021006	Tweed	NT 498334	TWRP	1500.0
005001	Beaufy	NH 428405	NSHE	849.5	021007	Ettrick Water	NT 486315	TWRP	499.0
006001	Ness	NH 639410	NSHE	1792.3	021008	Teviot	NT 702280	TWRP	1110.0
006006	Alt Bhlaradh	NH 377188	NSHE	27.5	021009	Tweed	NT 898477	TWRP	4390.0
008007	Ness	NH 845427	HRPB	1839.1	021010	Tweed	NT 588320	TWRP	2080.0
006008	Enrick	NH 450300	HRPB	105.9	021011	Yarrow Water	NT 439277	TWRP	231.0
007001	Findhorn	NH 826337	HRPB	415.6	021012	Teviot	NT 522159	TWRP	323.0
007002	Findhorn	NH 018583	HRPB	781.9	021013	Gala Water	NT 479374	TWRP	207.0
007003	Lossie	NJ 198626	NERPB	216.0	021014	Tweed	NT 109285	TWRP	139.0
007004	Nairn	NH 882551	HRPB	313.0	021015	Leader Water	NT 565388	TWRP	239.0
007005	Drnie	NJ 005480	HRPB	165.0	021016	Eye Water	NT 942635	TWRP	119.0
008001	Spey	NJ 278439	NERPB	2654.7	021017	Ettrick Water	NT 234132	TWRP	37.5
008002	Spey	NH 881082	NERPB	1011.7	021018	Lynne Water	NT 209401	TWRP	175.0
008003	Spey	NH 759986	NERPB	533.8	021019	Manor Water	NT 217369	TWRP	81.6
008004	Avon	NJ 186352	NERPB	542.8	021020	Yarrow Water	NT 309247	TWRP	155.0
008005	Spey	NH 946191	NERPB	1267.8	021021	Tweed	NT 752354	TWRP	3330.0
008006	Spey	NJ 318518	NERPB	2861.2	021022	Whitadder Water	NT 881550	TWRP	503.0
008007	Spey	NH 687862	NERPB	400.4	021023	Leet Water	NT 839396	TWRP	113.0
008008	Tromie	NH 789995	NERPB	130.3	021024	Jed Water	NT 655214	TWRP	139.0
008009	Dutnair	NH 977247	NERPB	272.2	021025	Ale Water	NT 634244	TWRP	174.0
008010	Spey	NJ 034268	NERPB	1748.8	021026	Tams Water	NT 278138	TWRP	31.0
009001	Deveron	NJ 532484	NERPB	441.6	021027	Blackadder Water	NT 826530	TWRP	159.0
009002	Deveron	NJ 705498	NERPB	954.9	021030	Maggot Water	NT 231232	TWRP	56.2
009003	Isle	NJ 494506	NERPB	176.1	021031	Tull	NT 927396	NWA	648.0
009004	Bogie	NJ 519373	NERPB	179.0	021032	Glen	NT 919310	NWA	198.9
010001	Ythan	NJ 924308	NERPB	448.1	021034	Yarrow Water	NT 288244	TWRP	116.0
010002	Ugie	NK 101485	NERPB	325.0	022001	Coquet	NU 234044	NWA	569.8
010003	Ythan	NJ 947303	NERPB	523.0	022002	Coquet	NT 870083	NWA	59.5
011001	Don	NJ 887141	NERPB	1273.0	022003	Usway Burn	NT 886077	NWA	21.4
011002	Don	NJ 756201	GRWD	787.0	022004	Aln	NU 211129	NWA	205.0
011003	Don	NJ 568170	NERPB	499.0	022006	Blyth	NZ 243800	NWA	269.4
012001	Dee	NO 635956	NERPB	1370.0	022007	Wansbeck	NZ 175858	NWA	287.3
012002	Dee	NO 798983	NERPB	1844.0	022008	Ahven	NT 925063	NWA	27.7
012003	Dee	NO 343965	NERPB	690.0	022009	Coquet	NU 067016	NWA	346.0
012004	Girnock Burn	NO 324956	NERPB	30.3	023001	Tyne	NZ 038617	NWA	2175.6
012005	Muck	NO 364947	NERPB	110.0	023002	Derwent	NZ 041508	NWA	118.0
012006	Gairn	NO 352971	NERPB	150.0	023003	North Tyne	NY 906732	NWA	1007.5
012007	Dee	NO 098895	NERPB	289.0	023004	South Tyne	NY 856647	NWA	751.1
013001	Bervie	NO 828733	NERPB	123.0	023005	North Tyne	NY 776861	NWA	284.9
013002	Luther Water	NO 660668	TRPB	138.0	023006	South Tyne	NY 672611	NWA	321.9
013003	South Esk	NO 583593	TRPB	487.0	023007	Derwent	NZ 168581	NWA	242.1
013005	Lunan Water	NO 855494	TRPB	124.0	023008	Rede	NY 868832	NWA	343.8
013007	North Esk	NO 699840	TRPB	730.0	023009	South Tyne	NY 716465	NWA	118.5
013008	South Esk	NO 600596	TRPB	490.0	023010	Tarset Burn	NY 789879	NWA	96.0
014001	Eden	NO 415158	TRPB	307.4	023011	Kielder Burn	NY 644948	NWA	58.8
014002	Dightly Water	NO 477324	TRPB	126.8	023012	East Allen	NY 802583	NWA	88.0
015001	Isle	NO 187847	TRWS	70.7	023013	West Allen	NY 791583	NWA	75.1
015002	Newton Burn	NO 230605	TRWS	15.4	023014	North Tyne	NY 631931	NWA	27.0
015003	Tay	NO 082395	TRPB	3211.0	023015	North Tyne	NY 924721	NGWC	1043.8
015004	Inzie	NO 280559	TRWS	24.7	024001	Wear	NZ 264378	NWA	657.8
015005	Melgan	NO 275558	TRWS	40.9	024002	Gaunfess	NZ 215306	NWA	93.0
015006	Tay	NO 147367	TRPB	4587.1	024003	Wear	NY 984391	NWA	171.9
015007	Tay	NN 924534	TRPB	1149.4	024004	Bedburn Beck	NZ 118322	NWA	74.9
015008	Dean Water	NO 340479	TRPB	177.1	024005	Brownie	NZ 259387	NWA	178.5
015010	Isle	NO 295466	TRPB	366.5	024006	Rookhope Burn	NY 952390	NWA	36.5
015011	Lyon	NN 786488	TRPB	391.1	024007	Brownie	NZ 165462	NWA	44.6
015012	Tummel	NN 940577	TRPB	1649.0	024008	Wear	NZ 174309	NWA	455.0
015013	Almond	NO 067258	TRPB	174.8	024009	Wear	NZ 283512	NWA	1008.3
015016	Tay	NN 782467	TRPB	600.9	025001	Tees	NZ 259137	NWA	818.4
015017	Braan	NN 979406	TRPB	197.0	025002	Tees	NY 932260	NWA	217.3
015018	Lyon	NN 534448	NSHE	161.4	025003	Trout Beck	NY 759338	NWA	11.4
015023	Braan	NO 014422	TRPB	210.0	025004	Skerne	NZ 284129	NWA	250.1
015024	Dochart	NN 567320	TRPB	239.0	025005	Leven	NZ 445122	NWA	196.3
016001	Earn	NN 933167	TRPB	590.5	025006	Greta	NZ 034122	NWA	86.1
016002	Earn	NN 754216	TRPB	176.9	025007	Clow Beck	NZ 282101	NWA	78.2
016003	Ruchill Water	NN 764204	TRPB	99.5	025008	Tees	NZ 047166	NWA	509.2
016004	Earn	NO 043184	TRPB	782.2	025009	Tees	NZ 364105	NWA	1264.0
017001	Carron	NS 832820	FRPB	122.3	025010	Baydale Beck	NZ 260156	NWA	31.1
017002	Leven	NO 369006	FRPB	424.0	025011	Langdon Beck	NY 852309	NWA	13.0
017003	Bonny Water	NS 824804	FRPB	50.5	025012	Harwood Beck	NY 849309	NWA	25.1
017004	Ore	NT 330997	FRPB	162.0	025013	Billingham Beck	NZ 408237	NWA	61.4
017005	Avon	NS 952797	FRPB	195.3	025014	Mordon Staff	NZ 323274	NWA	2.6
018001	Allan Water	NN 792053	FRPB	161.0	025015	Woodham Burn	NZ 285263	NWA	29.1
018002	Devon	NS 858960	FRPB	181.0	025016	Tees	NY 950250	NWA	242.1
018003	Taith	NN 725011	FRPB	518.0	025019	Leven	NZ 585087	NWA	14.8
018005	Allan Water	NS 786980	FRPB	210.0	025020	Skerne	NZ 297738	NWA	147.0
018008	Lany	NN 585096	FRPB	190.0	025021	Skerne	NZ 318285	NWA	70.1
018011	Forth	NS 775955	FRPB	1036.0	025022	Balder	NY 931182	NWA	20.4
019001	Almond	NT 165752	FRPB	389.0	025023	Tees	NY 813288	NWA	58.2
019002	Almond	NT 004652	FRPB	43.8	025024	Chapel Beck	NZ 599183	NWA	13.4
019003	Breich Water	NT 014639	FRPB	51.8	026001	West Beck	TA 064560	YWA	192.0
019004	North Esk	NT 252616	FRPB	81.6	026002	Hull	TA 080498	YWA	378.1
019005	Almond	NT 086866	FRPB	229.0	026003	Foston Beck	TA 093548	YWA	57.2
019006	Water	NT 228732	FRPB	107.0	026004	Gypsy Race	TA 165675	YWA	253.8
019007	Esk	NT 338723	FRPB	330.0	026005	Gypsy Race	TA 137677	YWA	240.0
019008	South Esk	NT 325823	FRPB	112.0	026006	Umswell Beck	TA 009575	YWA	136.0
019009	Bog Burn	NT 026591	FRPB	8.5	027001	Nidd	SE 428530	YWA	484.3
019010	Brad Burn	NT 273707	FRPB	16.2	027002	Wharfe	SE 427473	YWA	758.9
019011	North Esk	NT 333678	FRPB	137.0	027003	Aire	SE 534255	YWA	1932.1
020001	Tyne	NT 591768	FRPB	307.0	027004	Calder	SE 365220	YWA	899.0
020002	West Patter Burn	NT 489811	FRPB	26.2	027005	Nidd	SE 141683	YWA	113.7
020003	Tyne	NT 456689	FRPB	161.0	027006	Don	SK 390910	YWA	373.0
020004	East Peffer Burn	NT 610824	FRPB	31.1	027007	Ure	SE 356671	YWA	914.6
					027008	Swale	SE 415748	YWA	1345.6
					027009	Osse	SE 568554	YWA	3315.0
					027010	Hodge Beck	SE 627944	YWA	18.9
					027011	Washburn	SE 219488	YWA	87.3
					027012	Hebden Water	SD 973309	YWA	36.0
					027013	Ewden Beck	SK 289957	YWA	26.4
					027014	Rye	SE 743771	YWA	678.0
					027015	Derwent	SE 714557	YWA	1634.3
					027016	Little Don	SK 253992	YWA	38.6
					027017	Losley	SK 286906	YWA	43.5
					027018	Ryburn	SE 025187	YWA	10.7

Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
027019	Booth Dean Clough	SE 033166	YWA	15.9	029002	Great Eau	TF 416793	AWA	77.4
027020	Scout Dike Stream	SE 236047	YWA	15.2	028003	Lud	TF 337879	AWA	55.2
027021	Dan	SE 569040	YWA	1256.2	029004	Ancholme	TF 032811	AWA	54.7
027022	Dan	SK 427928	YWA	826.0	029005	Rase	TF 032912	AWA	69.2
027023	Deerne	SE 350073	YWA	118.9	029009	Ancholme	TF 033877	AWA	27.2
027024	Swale	NZ 146006	YWA	381.0	030001	Witham	SK 842480	AWA	297.9
027025	Rother	SK 432857	YWA	352.2	030002	Barlings Eau	TF 068766	AWA	210.1
027026	Rother	SK 394744	YWA	165.0	030003	Bain	TF 241611	AWA	197.1
027027	Wharfe	SE 112481	YWA	443.0	030004	Partney Lymn	TF 402676	AWA	61.8
027028	Aire	SE 281340	YWA	691.5	030005	Witham	SK 927335	AWA	126.1
027029	Caldar	SE 124219	YWA	341.9	030006	Slea	TF 088485	AWA	48.4
027030	Deerne	SE 477020	YWA	310.8	030011	Bain	TF 246795	AWA	62.5
027031	Colne	SE 174199	YWA	245.0	030012	Stainfield Beck	TF 127739	AWA	37.4
027032	Hadden Beck	SE 025643	YWA	6.8	030013	Heighington Beck	TF 042696	AWA	21.2
027033	Sea Cut	TA 028908	YWA	33.2	030014	Pounton Lode	TF 128313	AWA	11.9
027034	Ure	SE 190860	YWA	510.2	030015	Cragle Brook	SK 925297	AWA	50.5
027035	Aire	SE 013457	YWA	282.3	030017	Witham	SK 929246	AWA	51.3
027036	Derwent	SE 789715	YWA	1421.0	031001	Eye Brook	SP 853941	CDWC	60.1
027038	Costa Beck	SE 774836	YWA	7.8	031002	Glen	TF 106149	AWA	341.9
027039	Holme	SE 112069	YWA	9.1	031004	Welland	TF 095078	AWA	717.4
027040	Doe Lea	SK 443746	YWA	87.9	031005	Welland	SP 970997	AWA	417.0
027041	Derwent	SE 731587	YWA	1586.0	031006	Gwash	TF 038097	AWA	150.0
027042	Dove	SE 705855	YWA	51.8	031007	Welland	SP 948999	AWA	398.9
027043	Wharfe	SE 092494	YWA	427.0	031008	East Glen	TF 068160	AWA	136.2
027044	Blackfoss Beck	SE 725475	YWA	46.0	031009	West Glen	TF 074113	AWA	173.0
027047	Snazesholme Beck	SD 833883	YWA	10.2	031010	Charter	SK 961030	AWA	68.9
027048	Derwent	SE 990853	YWA	127.0	031011	West Glen	SK 987281	AWA	31.6
027049	Rye	SE 698791	YWA	227.0	031012	Tham	TF 016179	AWA	24.9
027050	Est	NZ 865081	YWA	308.0	031013	East Glen	TF 038273	AWA	71.5
027051	Crimple	SE 284519	YWA	8.1	031014	Grimsthorpe Brook	TF 046203	AWA	21.0
027052	Whitung	SK 376747	YWA	50.2	031015	Charter	SK 848037	AWA	18.5
027053	Nidd	SE 230603	YWA	217.6	031016	North Brook	SK 957089	AWA	36.5
027054	Hodge Beck	SE 652902	YWA	37.1	031017	Stanton Brook	SP 759918	AWA	42.7
027055	Rye	SE 580883	YWA	131.7	031018	Langton Brook	SP 755908	AWA	55.1
027056	Pickering Beck	SE 791819	YWA	68.6	031019	Medbourne Brook	SP 798939	AWA	27.9
027057	Seven	SE 736821	YWA	121.6	031020	Morcott Brook	SK 939018	AWA	19.6
027058	Riccal	SE 661810	YWA	57.8	031021	Welland	SP 819915	AWA	250.7
027059	Laver	SE 301710	YWA	87.5	031022	Jordan	SP 740887	AWA	20.8
027060	Kyle	SE 509602	YWA	167.6	031023	West Glen	SK 965258	AWA	4.4
027061	Colne	SE 136161	YWA	72.3	031024	Holwell Brook	TF 026148	AWA	22.3
027062	Nidd	SE 482581	YWA	516.0	031025	Gwash South Arm	SK 875051	AWA	24.5
027063	Dibb	SE 057639	YWA	25.5	031026	Egleton Brook	SK 878073	AWA	2.5
027064	Went	SE 551163	YWA	83.7	031027	Bourne Eau	TF 107199	AWA	10.6
027065	Holme	SE 142157	YWA	97.4	031028	Gwash	SK 951082	AWA	76.5
027066	Blackburn Brook	SK 393914	YWA	42.8	032001	Nene	TL 168972	AWA	1634.3
027067	Sheaf	SK 357863	YWA	49.1	032002	Willow Brook	TL 067933	AWA	89.8
027068	Ryburn	SE 035188	YWA	33.0	032003	Harpers Brook	SP 983799	AWA	74.3
027069	Wake	SE 375844	YWA	215.5	032004	Lee Brook	SP 898715	AWA	194.0
027071	Swale	SE 425734	YWA	1363.0	032006	Nene/Kislingbury	SP 721592	AWA	223.0
027072	Worth	SE 064408	YWA	71.7	032007	Nene/Brampton	SP 747817	AWA	232.8
027073	Brompton Beck	SE 938794	YWA	12.9	032008	Nene/Kislingbury	SP 627607	AWA	107.0
027074	Span Beck	SE 225210	YWA	46.3	032012	Wootton Brook	SP 736571	AWA	53.3
028001	Derwent	SK 198851	STWA	126.0	032015	Willow Bk Central	SP 898892	AWA	7.1
028002	Blithe	SK 109192	STWA	163.0	032016	Willow Brook Sih	SP 901886	AWA	7.8
028003	Tame	SP 169915	STWA	408.0	032018	Lee	SP 861831	AWA	62.4
028004	Tame	SP 208935	STWA	795.0	032019	Slade Brook	SP 873763	AWA	58.3
028005	Tame	SK 173105	STWA	1475.0	032020	Wittering Brook	TL 089995	AWA	46.9
028006	Trent	SJ 994231	STWA	325.0	032023	Graddon Brook	SP 883633	AWA	47.5
028007	Trent	SK 448299	STWA	4400.0	032024	Southwick Brook	TL 025921	AWA	20.5
028008	Dove	SK 112397	STWA	399.0	032025	Nene/Whilton	SP 706558	AWA	63.4
028009	Trent	SK 620399	STWA	7486.0	032026	Nene/Brampton	SP 736707	AWA	58.0
028010	Derwent	SK 358363	STWA	1054.0	032027	Billing Brook	TL 117949	AWA	24.3
028011	Derwent	SK 296586	STWA	690.0	032029	Flore	SP 660610	AWA	7.0
028012	Trent	SK 131177	STWA	1229.0	032030	Coton Mill Stream	SP 669714	AWA	8.5
028014	Sow	SJ 975215	STWA	591.0	032031	Wootton Brook	SP 726577	AWA	73.9
028015	Idle	SK 690895	STWA	529.0	033001	Bedford Ouse	TL 369727	AWA	3030.0
028018	Ryton	SK 641897	STWA	231.0	033002	Bedford Ouse	TL 055495	AWA	1480.0
028017	Devon	SK 787488	STWA	284.0	033003	Cam	TL 508657	AWA	803.0
028018	Dove	SK 235288	STWA	883.2	033004	Lark	TL 648760	AWA	466.2
028019	Trent	SK 239204	STWA	3077.0	033005	Bedford Ouse	SP 736353	AWA	388.5
028020	Churnet	SK 103389	STWA	236.0	033006	Wrassey	TL 771965	AWA	274.5
028021	Derwent	SK 443327	STWA	1175.0	033007	Nar	TF 723119	AWA	153.3
028022	Trent	SK 801801	STWA	8231.0	033008	Little Ouse	TL 860832	AWA	699.0
028023	Wye	SK 182696	STWA	154.0	033009	Bedford Ouse	SP 951565	AWA	1320.0
028024	Wreake	SK 815124	STWA	413.8	033011	Little Ouse	TL 892801	AWA	128.7
028025	Sence	SP 321996	STWA	169.4	033012	Kym	TL 155631	AWA	137.5
028026	Anker	SK 263034	STWA	368.0	033013	Sapstun	TL 898791	AWA	205.9
028027	Erewash	SK 482364	STWA	180.7	033014	Lark	TL 758730	AWA	272.0
028028	Soar	SK 603109	STWA	480.0	033015	Ouzel	SP 882408	AWA	277.1
028029	Kingston Brook	SK 503277	STWA	57.0	033016	Cam	TL 450593	AWA	761.5
028030	Black Brook	SK 468171	STWA	8.4	033018	Tove	SP 714488	AWA	138.1
028031	Manifold	SK 140507	STWA	148.5	033019	Thet	TL 880830	AWA	316.0
028032	Meden	SK 558680	STWA	62.8	033020	Alconbury Brook	TL 208717	AWA	201.5
028033	Dove	SK 063668	STWA	8.0	033021	Rhee	TL 415523	AWA	303.0
028034	Maun	SK 681728	STWA	161.0	033022	Ivel	TL 153509	AWA	541.3
028035	Leen	SK 549392	STWA	111.0	033023	Lee Brook	TL 862733	AWA	101.8
028038	Poulter	SK 700752	STWA	128.2	033024	Cam	TL 466506	AWA	194.0
028038	Manifold	SK 106595	STWA	46.0	033025	Babingley	TF 698258	AWA	39.6
028039	Rea	SP 071847	STWA	74.0	033026	Bedford Ouse	TL 216869	AWA	2570.0
028040	Trent	SJ 892467	STWA	53.2	033027	Rhee	TL 333485	AWA	119.1
028041	Hamps	SK 082502	STWA	39.6	033028	Flit	TL 143393	AWA	119.6
028042	Churnet	SJ 979520	STWA	136.0	033029	Stringside	TF 716006	AWA	93.5
028043	Derwent	SK 261683	STWA	335.0	033031	Broughton Brook	SP 889408	AWA	66.8
028044	Poulter	SK 563714	STWA	65.0	033032	Heacham	TF 685375	AWA	89.3
028045	Meden	SK 681732	STWA	106.2	033033	Haz	TL 190379	AWA	108.0
028046	Dove	SK 146509	STWA	83.0	033034	Little Ouse	TL 851844	AWA	699.3
028047	Oldcoates Dyke	SK 615876	STWA	85.2	033035	Ely Ouse	TF 588010	AWA	3430.0
028048	Amber	SK 378520	STWA	139.0	033037	Bedford Ouse	SP 877443	AWA	800.0
028049	Ryton	SK 575794	STWA	77.0	033039	Bedford Ouse	TL 160535	AWA	1680.0
028050	Torne	SE 646012	STWA	141.0	033040	Rhee	TL 267401	AWA	1.0
028051	Soar	SP 551985	STWA	202.0	033044	Thet	TL 957855	AWA	277.8
028052	Sow	SJ 883270	STWA	163.0	033045	Witle	TM 027878	AWA	28.3
028053	Penk	SJ 923144	STWA	272.0	033046	Thet	TL 986923	AWA	145.3
028054	Sence	SP 568985	STWA	133.0	033049	Stanford Water	TL 834953	AWA	43.5
028055	Ecclesbourne	SK 320447	STWA	50.4	033050	Snail	TL 631703	AWA	60.8
028056	Rothley Brook	SK 680121	STWA	94.0	033051	Cam	TL 505426	AWA	141.0
028058	Henmore Brook	SK 188488	STWA	42.0	033052	Swaffham Lode	TL 553628	AWA	36.4
028059	Maun	SK 548623	STWA	28.8	033054	Babingley	TF 680252	AWA	47.7
028060	Dover Beck	SK 653479	STWA	69.0	033055	Granta	TL 510504	AWA	98.7
028061	Churnet	SJ 983520	STWA	139.0	033056	Quay Water	TL 531627	AWA	76.4
028066	Cole	SP 183674	STWA	130.0	033057	Ouzel	SP 917241	AWA	119.0
028067	Derwent	SK 438316	STWA	1177.5	033058	Ouzel	SP 883322	AWA	215.0
028070	Burbage Brook	SK 258804	STWA	9.1	033060	Kings Dyke	TL 208973	AWA	101.0
028072	Greet	SK 711541	STWA	46.2	033063	Little Ouse	TL 955807	AWA	101.0
028073	Ashop	SK 171896	STWA	42.0	033084	Whaddon Brook	TL 359466	AWA	16.0
028080	Tame	SP 207937	STWA	799.0					
029001	Withe Beck	TA 253016	AWA	108.3					

Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
033065	Hiz	TL 185280	AWA	6.8	039007	Blackwater	SU 731648	TWA	354.8
033066	Grants	TL 570464	AWA	59.8	039008	Thames	SP 445087	TWA	1616.2
033067	New River	TL 608696	AWA	19.6	039009	Thames	SU 909797	TWA	6915.3
033088	Chaney Water	TL 296411	AWA	5.0	039010	Colne	TQ 052864	TWA	743.0
034001	Yare	TG 182082	AWA	231.8	039011	Wey	SU 874433	TWA	396.3
034002	Tas	TM 226994	AWA	146.5	039012	Hogsmill	TQ 182688	TWA	69.1
034003	Bure	TG 192296	AWA	184.7	039013	Colne	TQ 123987	TWA	352.2
034004	Wensum	TG 177128	AWA	536.1	039014	Ver	TL 151016	TWA	132.0
034005	Tud	TG 170113	AWA	73.2	039015	Whitewater	SU 731523	TWA	44.5
034006	Waveney	TM 229811	AWA	370.0	039016	Kennet	SU 649708	TWA	1033.4
034007	Dove	TM 174772	AWA	133.9	039017	Ray	SP 680211	IH	18.8
034008	Ant	TG 331270	AWA	49.3	039018	Ock	SU 486969	TWA	234.1
034010	Waveney	TM 168782	AWA	149.4	039019	Lambourn	SU 470682	TWA	234.1
034011	Wensum	TF 919294	AWA	127.1	039020	Coln	SP 122062	TWA	106.7
034012	Burn	TF 842428	AWA	80.0	039021	Cherwell	SP 482183	TWA	551.7
034013	Waveney	TM 364917	AWA	670.0	039022	Loddon	SU 720652	TWA	184.5
034014	Wensum	TG 020184	AWA	383.0	039023	Wye	SU 896867	TWA	137.3
034018	Stiffkey	TF 944414	AWA	77.1	039024	Ganck Stream	TQ 288402	TWA	31.1
034019	Bure	TG 267194	AWA	313.0	039025	Enbourne	SU 568648	TWA	147.6
035001	Gipping	TM 154441	AWA	310.8	039026	Cherwell	SP 458411	TWA	199.4
035002	Deben	TM 322534	AWA	163.1	039027	Pang	SU 634766	TWA	170.9
035003	Alde	TM 360601	AWA	63.9	039028	Dun	SU 321685	TWA	101.3
035004	Ore	TM 359583	AWA	54.9	039029	Tillingbourne	TQ 000478	TWA	59.0
035008	Gipping	TM 058578	AWA	178.9	039030	Gade	TQ 082952	TWA	184.0
035009	Blyth	TM 425765	AWA	96.4	039031	Lambourn	SU 411731	TWA	176.0
035010	Gipping	TM 127465	AWA	298.0	039032	Lambourn	SU 390745	TWA	154.0
035011	Belstead Brook	TM 143420	AWA	40.4	039033	Winterbourne St	SU 453694	TWA	49.2
035013	Blyth	TM 406789	AWA	92.9	039034	Evenode	SP 448099	TWA	430.0
036001	Stour	TM 042340	EWC	844.3	039035	Churn	SU 076963	TWA	124.3
036002	Glem	TL 848472	AWA	87.3	039036	Law Brook	TQ 045468	TWA	16.0
036003	Box	TL 985378	AWA	53.9	039037	Kennet	SU 187886	TWA	142.0
036004	Chad Brook	TL 868459	AWA	47.4	039038	Thames	SP 670055	TWA	443.0
036005	Brett	TM 025429	AWA	156.0	039040	Thames	SU 094942	TWA	185.0
036006	Stour	TM 020344	AWA	578.0	039042	Leach	SU 227994	TWA	76.9
036007	Belchamp Brook	TL 848421	AWA	58.6	039043	Kennet	SU 295710	TWA	295.0
036008	Stour	TL 827483	AWA	274.5	039044	Hart	SU 755593	TWA	84.0
036009	Brett	TL 914525	AWA	25.7	039046	Thames	SU 516946	TWA	3414.0
036010	Bumpstead Brook	TL 689418	AWA	28.3	039049	Silk Stream	TQ 217895	GLC	29.0
036011	Stour Brook	TL 696441	AWA	34.5	039051	Sor Brook	SP 475346	TWA	106.4
036012	Stour	TL 708450	AWA	76.2	039052	The Cut	SU 853713	TWA	50.2
036013	Brett	TM 032354	AWA	195.0	039053	Mole	TQ 271434	TWA	89.9
036015	Stour	TL 897358	AWA	480.7	039054	Mole	TQ 260399	TWA	31.8
036016	Ramsey	TM 206288	AWA	13.9	039055	Yeading Bk West	TQ 083846	GLC	175.7
036017	Ely Ouse outfall	TL 681559	AWA		039056	Ravensbourne	TQ 372732	GLC	87.6
037001	Roding	TQ 415884	TWA	303.3	039057	Crane	TQ 103778	GLC	616.5
037002	Chelmer	TL 794090	AWA	533.9	039058	Pool	TQ 371725	GLC	38.3
037003	Ter	TL 786107	AWA	77.8	039068	Mole	TQ 179502	TWA	316.0
037004	Blackwater	TL 836092	AWA	337.0	039069	Mole	TQ 262462	TWA	142.0
037005	Colne	TL 962761	AWA	238.2	039071	Thames	SU 007873	TWA	63.7
037006	Can	TL 690072	AWA	228.4	039072	Thames	SU 982773	TWA	7046.0
037007	Wid	TL 686080	AWA	136.3	039073	Churn	SP 020028	TWA	84.0
037008	Chelmer	TL 713071	AWA	190.3	039074	Amprey Brook	SU 105950	TWA	74.4
037009	Brain	TL 818147	AWA	60.7	039075	Marston Meysay Bk	SU 128964	TWA	25.0
037010	Blackwater	TL 845158	AWA	247.3	039076	Windrush	SP 299107	TWA	296.0
037011	Chelmer	TL 629233	AWA	72.6	039077	Og	SP 194967	TWA	59.2
037012	Colne	TL 771364	AWA	65.1	039078	Wey(north)	SU 838462	TWA	118.4
037013	Sandon Brook	TL 755055	AWA	60.6	039081	Ock	SU 481966	TWA	234.0
037014	Roding	TL 561040	TWA	95.1	039085	Wandle	TQ 266703	GLC	178.1
037015	Cripsey Brook	TL 548035	TWA	62.2	039086	Ganck Stream	TQ 285417	TWA	33.6
037016	Peni	TL 668313	AWA	62.5	039087	Ray	SU 121935	TWA	84.1
037017	Blackwater	TL 793243	AWA	139.2	039088	Chess	TQ 066847	TWA	105.0
037018	Ingrebourne	TQ 553867	TWA	47.9	040001	Medway	TQ 407353	SWA	26.9
037019	Beam	TQ 515853	TWA	49.7	040002	Darwell	TQ 722213	SWA	9.6
037020	Chelmer	TL 670193	AWA	132.1	040003	Medway	TQ 708530	SWA	1256.1
037021	Roman	TL 985205	AWA	52.6	040004	Rother	TQ 773245	SWA	206.0
037022	Holland Brook	TM 179212	AWA	54.9	040005	Bault	TQ 758478	SWA	277.1
037023	Roding	TQ 442955	TWA	289.0	040006	Bourne	TQ 632497	SWA	50.3
037024	Colne	TL 855298	AWA	154.2	040007	Medway	TQ 517405	SWA	255.1
037025	Bourne Brook	TL 822276	AWA	32.1	040008	Great Stour	TR 049470	SWA	230.0
037026	Tenpenny Brook	TM 079207	AWA	29.0	040009	Teise	TQ 718399	SWA	136.2
037027	Sixpenny Brook	TM 054214	AWA	5.1	040010	Eden	TQ 520437	SWA	274.3
037028	Bentley Brook	TM 109193	AWA	12.1	040011	Great Stour	TR 116554	SWA	345.0
037029	St Oysth Brook	TM 134159	AWA	8.0	040012	Darent	TQ 551718	TWA	191.4
037030	Holland Brook	TM 171217	AWA	48.6	040013	Darent	TQ 525584	TWA	100.6
037033	Eastwood Brook	TQ 859888	AWA	10.4	040014	Wingham	TR 276576	SWA	37.7
037034	Mardyke	TQ 598806	AWA	90.7	040015	White Drain	TR 055606	SWA	31.8
037036	Ely Ouse Outfall	TL 646351	AWA		040016	Cray	TQ 511746	TWA	119.7
037037	Toppsfield Brook	TL 675377	AWA		040017	Dudwell	TQ 879240	SWA	27.5
037038	Wid	TL 672000	AWA	98.6	040018	Darent	TQ 530643	TWA	118.4
037039	Blackwater	TL 835090	AWA	337.0	040020	Eridge Stream	TQ 522367	SWA	53.7
038001	Lee	TL 390092	TWA	1036.0	040021	Hasden Channel	TQ 813290	SWA	32.4
038002	Ash	TL 393148	TWA	78.7	040022	Great Stour	TQ 973423	SWA	72.5
038003	Mimram	TL 282133	TWA	133.9	040023	East Stour	TR 017407	AWA	77.7
038004	Rib	TL 360174	TWA	136.5	040024	Bartley Mill St	TQ 633357	SWA	25.1
038005	Ash	TL 380138	TWA	85.2	041001	Nunningham Stream	TQ 662129	SWA	16.9
038006	Rib	TL 335158	TWA	148.1	041002	Ash Bourne	TQ 684141	SWA	18.4
038007	Canons Brook	TL 431104	TWA	21.4	041003	Cuckmere	TQ 533051	SWA	134.7
038011	Mimram	TL 275169	TWA	98.7	041004	Ouse	TQ 433148	SWA	395.7
038012	Stevenage Brook	TL 274211	TWA	36.0	041005	Ouse	TQ 429214	SWA	180.9
038013	Upper Lee	TL 118185	TWA	70.7	041006	Uck	TQ 459190	SWA	87.8
038014	Salmon Brook	TQ 343937	TWA	20.5	041009	Rother	TQ 034178	SWA	345.8
038015	Intercepting dr	TQ 355932	TWA	7.4	041010	Adur W Branch	TQ 178197	SWA	109.1
038016	Stanstead Springs	TL 500248	TWA		041011	Rother	SU 852229	SWA	154.0
038017	Mimram	TL 184212	TWA	39.1	041012	Adur E Branch	TQ 219190	SWA	93.3
038018	Upper Lee	TL 299099	TWA	150.0	041013	Huggletts Stream	TQ 671138	SWA	14.2
038019	Salmons Brook	TQ 354932	TWA	33.9	041014	Arun	TQ 047229	SWA	379.0
038020	Cobbins Brook	TQ 387999	TWA	38.4	041015	Ems	SU 755074	SWA	58.3
038021	Turkey Brook	TQ 359985	TWA	42.2	041016	Cuckmere	TQ 611150	SWA	18.7
038022	Pymmes Brook	TQ 340925	TWA	42.6	041017	Combehaven	TQ 765102	SWA	30.5
038023	Lee flood relief	TQ 358880	TWA	1243.0	041018	Kird	TQ 044256	SWA	66.8
038024	Small River Lee	TQ 370988	TWA	41.5	041019	Arun	TQ 117331	SWA	139.0
038025	Pymmes Brook	TQ 340925	TWA	41.4	041020	Bevern Stream	TQ 423161	SWA	34.6
038026	Pincey Brook	TL 495126	TWA	54.6	041021	Clayhill Stream	TQ 448153	SWA	7.1
038028	Stansted Brook	TL 506241	TWA	25.9	041022	Lod	SU 931223	SWA	52.0
038029	Quin	TL 392248	TWA	50.4	041023	Lavant	SU 871064	SWA	87.2
038030	Beane	TL 325131	TWA	175.1	041024	Shell Brook	TQ 335286	SWA	72.6
038131	Rye Meads outfall				041025	Lorwood Stream	TQ 060309	SWA	91.6
039001	Thames	TQ 177698	TWA	9948.0	041026	Cockhase Brook	TQ 376262	SWA	36.1
039002	Thames	SU 568935	TWA	3444.7	041027	Rother	SU 772270	SWA	37.2
039003	Wandle	TQ 265705	GLC	178.1	041028	Chess Stream	TQ 217173	SWA	24.0
039004	Wandle	TQ 298655	GLC	122.0	042001	Wallington	SU 587075	SWA	111.0
039005	Beverley Brook	TQ 216717	GLC	43.6	042002	Itchen	SU 467213	SWA	
039006	Windrush	SP 402019	TWA	362.6	042003	Lymington	SU 318019	SWA	98.9
					042004	Test	SU 354188	SWA	1040.0
					042005	Wallop Brook	SU 311330	SWA	53.6
					042006	Meon	SU 589141	SWA	72.8

Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
042007	Aire	SU 574326	SWA	57.0	053009	Wellow Brook	ST 741581	WWA	72.6
042008	Chertem Stream	SU 574323	SWA	75.1	053013	Marden	ST 955729	WWA	99.2
042009	Candover Brook	SU 568323	SWA	71.2	053015	Spring Flow	ST 902524	WWA	
042010	Itchen	SU 467213	SWA	360.0	053016	Spring Flow	ST 803399	WWA	
042011	Humble	SU 523149	SWA	56.6	053017	Boyd	ST 681698	WWA	48.0
042012	Anson	SU 379393	SWA	185.0	053018	Avon	ST 786671	WWA	1552.0
042013	Test	SU 355189	SWA	1040.0	053019	Woodbridge Brook	ST 949866	WWA	46.6
042014	Blackwater	SU 328174	SWA	104.7	053020	Gauze Brook	ST 937840	WWA	28.2
042016	Itchen	SU 512325	SWA	236.8	053022	Avon	ST 738651	WWA	1605.0
042021	Branch of Test	SU 355159	SWA	1050.0	053023	Sherston Avon	ST 891870	WWA	89.7
043001	Avon	SU 142054	WWA	1649.8	053024	Tetbury Avon	ST 914893	WWA	73.6
043003	Avon	SU 158144	WWA	1477.8	053025	Mells	ST 757491	WWA	119.0
043004	Bourne	SU 157304	WWA	163.6	053026	Frome(Bristol)	ST 667822	WWA	78.5
043005	Avon	SU 151413	WWA	323.7	053028	By Brook	ST 815688	WWA	102.0
043006	Nadder	SU 098308	WWA	220.6	054001	Severn	SO 782767	STWA	4325.0
043007	Stour	SZ 113958	WWA	1073.0	054002	Avon	SP 040438	STWA	2210.0
043008	Wyllye	SU 086343	WWA	445.4	054003	Vymwy	SJ 019191	NWWA	94.3
043009	Stour	ST 820147	WWA	523.1	054004	Sowe	SP 332731	STWA	262.0
043010	Allen	SU 006085	WWA	94.0	054005	Severn	SJ 412144	STWA	2025.0
043011	Ebbie	ST 162263	WWA	109.0	054006	Stour	SO 829768	STWA	324.0
043012	Wyllye	ST 909428	WWA	112.4	054007	Arrow	SP 086536	STWA	318.0
043013	Mude	SZ 184936	WWA	12.4	054008	Terne	SO 597686	STWA	1134.4
043014	East Avon	SU 133559	WWA	86.2	054010	Stour	SP 206507	STWA	316.0
043015	Wyllye	ST 868413	WWA	69.0	054011	Sahwarpe	SO 868618	STWA	184.0
043017	West Avon	SU 133559	WWA	76.0	054012	Tern	SJ 592123	STWA	852.0
043018	Allen	SU 008007	WWA	176.5	054013	Chywedog	SN 944855	STWA	57.0
043019	Shreen Water	ST 807278	WWA	29.1	054014	Severn	SO 164958	STWA	580.0
043021	Avon	SZ 155943	WWA	1706.0	054015	Bow Brook	SO 927463	STWA	156.0
044001	Frome	SY 866887	WWA	414.4	054016	Roden	SJ 589141	STWA	259.0
044002	Piddle	SY 913876	WWA	183.1	054017	Leadon	SO 777234	STWA	293.0
044003	Asker	SY 470928	WWA	49.1	054018	Rea Brook	SJ 466092	STWA	178.0
044004	Frome	SY 708903	WWA	206.0	054019	Avon	SP 333715	STWA	347.0
044006	Sydling Water	SY 632997	WWA	12.4	054020	Perry	SJ 434192	STWA	180.8
044008	St Winterbourne	SY 629897	WWA	19.9	054022	Severn	SN 853872	IH	8.7
044009	Wey	SY 666839	WWA	7.0	054023	Badsey Brook	SP 063449	STWA	95.8
045001	Eze	SS 936016	SWWA	600.9	054024	Worfe	SO 747953	STWA	258.0
045002	Eze	SS 943178	SWWA	421.7	054025	Dufas	SN 950874	STWA	52.7
045003	Culm	ST 021058	SWWA	276.1	054026	Chelt	SO 892284	STWA	34.5
045004	Axe	SY 262953	SWWA	288.5	054027	Frome	SO 831047	STWA	198.0
045005	Otter	SY 087885	SWWA	202.5	054028	Vymwy	SJ 252195	STWA	778.0
045006	Quarrie	SS 919356	SWWA	20.4	054029	Terne	SO 735557	STWA	1480.0
045008	Otter	SY 115986	SWWA	104.2	054032	Severn	SO 863390	STWA	6850.0
045009	Eze	SS 935260	SWWA	159.7	054034	Dowles Brook	SO 768764	STWA	40.8
046001	South Teign	SX 671844	SWWA	9.9	054036	Isbourne	SP 023408	STWA	90.7
046002	Teign	SX 856746	SWWA	380.0	054038	Tanat	SJ 252225	STWA	229.0
046003	Dart	SX 751659	SWWA	247.8	054040	Meese	SJ 680205	STWA	167.8
046004	Avon	SX 680651	SWWA	12.0	054041	Tern	SJ 649230	STWA	192.0
046005	East Dart	SX 657775	SWWA	21.5	054042	Clywedog	SN 914867	STWA	49.0
046006	Erme	SX 642532	SWWA	43.5	054043	Severn	SO 863399	STWA	6990.0
046007	West Dart	SX 643742	SWWA	47.9	054044	Tern	SJ 679316	STWA	92.6
046008	Avon	SX 719476	SWWA	102.3	054045	Perry	SJ 347303	STWA	49.1
047001	Tamar	SX 426725	SWWA	916.9	054046	Worfe	SJ 781046	STWA	54.9
047002	Tamar	SX 343886	SWWA	232.1	054047	Perry	SJ 403223	STWA	155.0
047003	Tavy	SX 474650	SWWA	205.9	054048	Dene	SP 273556	STWA	102.0
047004	Lynher	SX 368624	SWWA	135.5	054063	Corve	SO 510752	STWA	164.0
047005	Ottery	SX 336866	SWWA	120.7	054064	Onny	SO 455789	STWA	235.0
047006	Lyd	SX 388842	SWWA	218.1	054065	Rea	SO 664724	STWA	129.0
047007	Yealm	SX 574511	SWWA	54.9	054066	Clun	SO 393786	STWA	195.0
047008	Thrushel	SX 398856	SWWA	112.7	054067	Severn	SO 844279	STWA	9895.0
047009	Tiddy	SX 343595	SWWA	37.2	054068	Stoke Park Brook	SJ 644260	STWA	14.3
047010	Tamar	SX 290991	SWWA	76.7	054069	Allford Brook	SJ 654223	STWA	10.2
047011	Plym	SX 522613	SWWA	79.2	054070	Pottford Brook	SJ 634220	STWA	75.0
047013	Withey Brook	SX 244763	SWWA	16.2	054071	Hodnet Brook	SJ 678288	STWA	5.1
047014	Walkham	SX 513699	SWWA	43.2	054072	Roden	SJ 565241	STWA	210.0
048001	Fowey	SX 227698	SWWA	36.8	054073	Smestow Brook	SO 861908	STWA	81.3
048002	Fowey	SX 108613	SWWA	171.2	054074	Tetchill Brook	SJ 379288	STWA	21.2
048003	Fal	SW 921447	SWWA	87.0	054075	Springs Brook	SJ 387297	STWA	10.4
048004	Warleggan	SX 159674	SWWA	25.3	054076	Severn	SN 996851	STWA	187.0
048005	Kenwyn	SW 820450	SWWA	19.1	054081	Clywedog	SN 913868	STWA	49.0
048006	Cober	SW 654273	SWWA	40.1	054082	Crow Brook	SJ 678141	STWA	16.7
048007	Kennall	SW 762377	SWWA	26.6	054084	Cannop Brook	SO 616075	STWA	31.5
048009	St Neot	SX 184662	SWWA	27.7	054085	Cannop Brook	SO 609115	STWA	10.4
048010	Seaton	SX 299596	SWWA	38.1	054086	Cornway Diversion	SJ 999179	STWA	13.2
048011	Fowey	SX 098624	SWWA	169.1	054087	Allford Brook	SJ 665233	STWA	4.7
049001	Camel	SX 017682	SWWA	208.8	054088	Little Avon	ST 683988	WWA	134.0
049002	Hayle	SW 549342	SWWA	48.9	054090	Tanllwyth	SN 844876	IH	0.9
049003	De Lank	SX 132765	SWWA	21.7	054091	Severn	SN 843878	IH	3.6
049004	Gannel	SW 829593	SWWA	41.0	054092	More	SN 846873	IH	3.7
050001	Taw	SS 608237	SWWA	826.2	054111	Severn	SO 776783	STWA	4325.0
050002	Torridge	SS 500185	SWWA	663.0	055001	Wye	SO 535090	WELS	4040.0
050003	Taw	SX 634938	SWWA	15.6	055002	Wye	SO 485388	WELS	1895.9
050004	Hole Water	SS 705373	SWWA	5.4	055003	Lugg	SO 548405	WELS	885.8
051001	Doniford Stream	ST 088428	WWA	75.8	055004	Irlon	SN 892460	WELS	72.8
051002	Horne Water	SS 898458	WWA	20.8	055005	Wye	SN 989676	WELS	166.8
052001	Axe	ST 527458	WWA	18.2	055006	Flan	SN 926645	STWA	184.0
052002	Yeo	ST 556116	WWA	30.3	055007	Wye	SO 076445	WELS	1282.1
052003	Haile Water	ST 206253	WWA	87.8	055008	Wye	SN 829838	IH	10.4
052004	Isle	ST 381188	WWA	90.1	055009	Monnow	SO 419251	WELS	357.4
052005	Tone	ST 206250	WWA	202.0	055010	Wye	SN 843825	WELS	27.2
052006	Yeo	ST 573162	WWA	213.1	055011	Irlon	SO 105683	WELS	111.4
052007	Parrett	ST 461144	WWA	74.8	055012	Irlon	SN 995507	WELS	244.2
052008	Tone	ST 044313	WWA	18.1	055013	Arrow	SO 328585	WELS	126.4
052009	Sheppey	ST 498439	WWA	59.6	055014	Lugg	SO 364647	WELS	203.3
052010	Brue	ST 590318	WWA	135.2	055015	Handdu	SO 277294	WELS	25.1
052011	Cary	ST 498291	WWA	82.4	055016	Irlon	SO 024578	WELS	358.0
052014	Tone	ST 078202	WWA	57.2	055017	Chweltru	SN 998531	WELS	29.0
052015	Land Yeo	ST 483716	WWA	23.3	055018	Frome	SO 615428	WELS	144.0
052016	Currypool Stream	ST 221382	WWA	15.7	055019	Gamber Brook	SO 579235	WELS	30.3
052017	Congresbury Yeo	ST 452631	WWA	86.6	055020	Pinsley Brook	SO 462598	WELS	24.2
052020	Gallica Stream	ST 571100	WWA	16.4	055021	Lugg	SO 502589	WELS	371.0
053001	Avon	ST 903641	WWA	665.6	055022	Trathy	SO 503117	WELS	142.0
053002	Semington Brook	ST 907605	WWA	157.7	055023	Wye	SO 528110	WELS	4010.0
053003	Avon	ST 753645	WWA	1595.0	055024	Lynfi	SO 166373	WELS	132.0
053004	Chew	ST 648647	WWA	129.5	055026	Wye	SN 976676	WELS	174.0
053005	Midford Brook	ST 763611	WWA	147.4	055027	Rudhall Brook	SO 641257	WELS	13.2
053006	Frome(Bristol)	ST 637772	WWA	148.9	055028	Frome	SO 667489	WELS	77.7
053007	Frome(Somerset)	ST 805564	WWA	261.6	055029	Monnow	SO 415249	WELS	354.0
053008	Avon	ST 966832	WWA	303.0	055030	Claerwen	SN 910620	WELS	95.3
					055031	Yazor Brook	SO 492415	WELS	42.3
					055032	Elan	SN 934653	WELS	184.0
					055033	Wye	SN 824853	IH	3.9
					055034	Cyff	SN 824842	IH	3.1
					055035	Iago	SN 826854	IH	1.1
					056001	Usk	SO 345056	WELS	911.7
					056002	Ebbw	ST 259889	WELS	216.5
					056003	Honddu	SO 051297	WELS	62.1

Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
056004	Uak	SO 127203	WELS	543.9	068018	Dane	SJ 861632	NWWA	145.0
056005	Lwyd	ST 330824	WELS	98.1	068019	Weaver	SJ 574762	NWWA	1370.0
056006	Uak	SN 947295	WELS	183.8	068020	Gowy	SJ 448711	NWWA	156.0
056007	Senni	SN 928255	WELS	19.9	069001	Marsey	SJ 728936	NWWA	679.0
056008	Monks Ditch	ST 372885	WELS	15.4	069002	Inwell	SJ 824987	NWWA	559.4
058010	Uak	SO 358042	WELS	927.2	069003	Irk	SJ 841992	NWWA	72.5
058011	Sirhowy	ST 206912	WELS	76.1	069004	Etherow	SK 023971	NWWA	78.2
058012	Gwynne	SO 241176	WELS	82.2	069005	Glaze Brook	SJ 685939	NWWA	152.0
058013	Yacur	SO 003304	WELS	62.8	069006	Bollin	SJ 727875	NWWA	256.0
058014	Uak	SN 840290	WELS	17.0	069007	Marsey	SJ 772936	NWWA	680.0
058015	Olway Brook	SO 384010	WELS	105.1	069008	Dean	SJ 846830	NWWA	61.8
058016	Cearfanell outft	SO 104206	WELS	32.4	069011	Mackay Brook	SJ 855889	NWWA	67.3
058017	Afon Lwyd	SO 274019	WELS	42.5	069015	Etherow	SJ 962908	NWWA	156.0
058018	Sirhowy	SO 131114	WELS	13.5	069017	Goyt	SJ 964898	NWWA	183.0
057001	Taf Fechan	SO 060117	WELS	33.7	069018	Newton Brook	SJ 585933	NWWA	32.8
057002	Taf Fawr	SO 012111	WELS	43.0	069020	Madlock	SJ 849975	NWWA	57.5
057003	Taft	ST 132818	WELS	486.9	069021	Stake Brook	SD 876247	NWWA	0.3
057004	Cynon	ST 079956	WELS	106.0	069023	Roch	SD 807077	NWWA	186.0
057005	Taft	ST 079897	WELS	454.8	069024	Croal	SD 743068	NWWA	145.0
057006	Rhondda	ST 054909	WELS	100.5	069027	Tame	SJ 906918	NWWA	150.0
057007	Taft	ST 089951	WELS	194.5	069030	Sankey Brook	SJ 588922	NWWA	154.0
057008	Rhymney	ST 225821	WELS	178.7	069032	Alt	SJ 392983	NWWA	90.1
057009	Ely	ST 121770	WELS	145.0	069033	Alt	SD 359012	NWWA	100.0
057010	Ely	ST 034827	WELS	39.4	069035	Inwell	SD 797109	NWWA	155.0
057011	Blisw Taf Fawr	SN 987193	WELS	5.1	069036	Eagley Brook	SD 701149	NWWA	18.8
057012	Garnant	SO 004129	WELS	43.1	069039	Medlock	SJ 863987	NWWA	55.9
057014	Rhymney	ST 156984	WELS	83.2	070001	Douglas	SD 831119	NWWA	39.4
057015	Taft	SO 043068	WELS	104.1	070002	Douglas	SD 476126	NWWA	198.0
057016	Taf Fechan	SO 060115	WELS	33.8	070003	Douglas	SD 587061	NWWA	55.3
058001	Ogmore	SS 904794	WELS	158.0	070004	Yarrow	SD 458180	NWWA	74.4
058002	Neath	SN 815017	WELS	190.9	070005	Lostock	SD 497187	NWWA	56.0
058003	Ewenny	SS 914780	WELS	62.9	071001	Ribble	SD 589304	NWWA	1145.0
058005	Ogmore	SS 904844	WELS	74.3	071002	Hodder	SD 719546	NWWA	37.0
058006	Meltham	SN 815082	WELS	65.8	071003	Croesdale	SD 706546	NWWA	10.4
058007	Llynhy	SS 891855	WELS	50.2	071004	Calder	SD 729360	NWWA	316.0
058008	Dulas	SN 778008	WELS	43.0	071005	Bottome Beck	SD 745565	NWWA	10.6
058009	Ewenny	SS 920782	WELS	62.5	071008	Ribble	SD 722392	NWWA	456.0
058010	Hepste	SN 969134	WELS	11.0	071007	Ribble	SD 709379	NWWA	720.0
058011	Thaw	ST 017716	WELS	49.2	071008	Hodder	SD 704399	NWWA	261.0
059001	Tawe	SS 685998	WELS	227.7	071010	Pendle Water	SD 837351	NWWA	108.0
059002	Loughor	SN 623127	WELS	46.4	071011	Ribble	SD 839556	NWWA	204.0
060001	Tyne	SN 491204	WELS	1087.8	071014	Darwen	SD 565278	NWWA	128.0
060002	Cothi	SN 508225	WELS	297.8	072001	Lune	SD 503647	NWWA	994.8
060003	Taf	SN 238160	WELS	217.3	072002	Wyre	SD 463411	NWWA	275.0
060004	Deen Fawr	SN 290175	WELS	40.1	072004	Lune	SD 529853	NWWA	983.0
060005	Brin	SN 771343	WELS	66.8	072005	Lune	SD 622907	NWWA	219.0
060006	Gwili	SN 431220	WELS	129.5	072006	Lune	SD 615778	NWWA	507.1
060007	Tyne	SN 762382	WELS	231.8	072008	Wyre	SD 488447	NWWA	114.0
060008	Speedde	SN 712266	WELS	81.1	072009	Wenning	SD 815701	NWWA	142.0
060010	Tyne	SN 485206	WELS	1080.4	072010	Lune	NY 613041	NWWA	135.8
060012	Terch	SN 650440	WELS	20.7	072011	Rawthey	SD 639911	NWWA	200.0
060013	Cothi	SN 537301	WELS	281.8	073001	Leven	SD 371883	NWWA	241.0
061001	Western Cleddau	SM 954177	WELS	197.6	073002	Croak	SD 294892	NWWA	73.0
061002	Eastern Cleddau	SN 072153	WELS	183.1	073005	Kent	SD 505874	NWWA	209.0
061003	Gwaun	SN 005349	WELS	31.3	073007	Troutbeck	NY 404007	NWWA	23.6
061004	Western Cleddau	SM 942184	WELS	197.6	073008	Bala	SD 496806	NWWA	131.0
062001	Terfi	SN 244416	WELS	893.6	073009	Sprint	SD 514961	NWWA	34.6
062002	Terfi	SN 433406	WELS	546.5	073010	Leven	SD 367883	NWWA	247.0
063001	Yswyth	SN 591774	WELS	169.8	073011	Mint	SD 524944	NWWA	65.8
063002	Rhaidol	SN 801804	WELS	182.1	073013	Rothay	NY 371042	NWWA	84.0
063003	Wyre	SN 542698	WELS	40.6	073014	Brathay	NY 380034	NWWA	57.4
064001	Dovey	SH 745019	WELS	471.3	073015	Keer	SD 523719	NWWA	48.0
064002	Dysynni	SH 632066	WELS	75.1	074001	Duddon	SD 198898	NWWA	78.2
064003	Mawddach	SH 728233	WELS	138.6	074002	Irt	NY 138038	NWWA	44.2
064006	Leri	SN 635882	WELS	47.2	074003	Ehen	NY 084154	NWWA	44.2
065001	Glaslyn	SH 592478	WELS	88.6	074005	Ehen	NY 005061	NWWA	125.5
065002	Dwyryd	SH 670415	WELS	78.2	074006	Calder	NY 035045	NWWA	44.8
065004	Gwyrfai	SH 484599	WELS	47.9	074007	Esk	SD 131978	NWWA	70.2
065005	Erc	SH 400404	WELS	18.1	074008	Duddon	SD 209947	NWWA	47.9
065006	Senni	SH 493623	WELS	74.4	075001	St Johns Beck	NY 309191	NWWA	40.9
065007	Dwyfawr	SH 499429	WELS	52.4	075002	Darwent	NY 038305	NWWA	663.0
066001	Chenyd	SJ 069709	WELS	404.0	075003	Darwent	NY 195321	NWWA	363.0
066002	Ehery	SJ 021704	WELS	220.0	075004	Cocker	NY 131281	NWWA	116.8
066003	Aled	SJ 957703	WELS	70.0	075005	Darwent	NY 251239	NWWA	235.0
066004	Wheeler	SJ 105714	WELS	82.9	075006	Newlands Beck	NY 240238	NWWA	33.9
066005	Chenyd	SJ 122592	WELS	95.3	075007	Glendarmackin	NY 323248	NWWA	69.0
066006	Ehery	SJ 952718	WELS	194.0	075009	Grate	NY 286242	NWWA	146.8
066008	Aled	SH 915598	WELS	11.8	075010	Marron	NY 074238	NWWA	27.7
066011	Conwy	SH 802581	WELS	344.5	075016	Cocker	NY 149214	NWWA	64.0
067001	Dee	SH 942357	WELS	281.8	076001	Haweswater Beck	NY 508159	NWWA	33.0
067002	Dee	SJ 357413	WELS	1040.0	076002	Eden	NY 470567	NWWA	1366.7
067003	Brenig	SJ 974539	WELS	22.0	076003	Eamont	NY 578306	NWWA	396.2
067004	Ahwen	SJ 957528	WELS	25.5	076004	Lowther	NY 527287	NWWA	158.5
067005	Carnog	SJ 295373	WELS	113.7	076005	Eden	NY 605283	NWWA	616.4
067006	Ahwen	SJ 042436	WELS	184.7	076007	Eden	NY 390571	NWWA	2286.5
067007	Dee	SJ 155428	WELS	728.0	076008	Irthing	NY 485581	NWWA	334.6
067008	Alyn	SJ 336541	WELS	227.1	076009	Caldew	NY 378469	NWWA	147.2
067009	Alyn	SJ 208667	WELS	77.8	076010	Patteril	NY 412545	NWWA	160.0
067010	Gelyn	SH 843420	WELS	13.1	076011	Coal Burn	NY 693777	IH	1.5
067012	Tryneryn	SH 838398	WELS	27.2	076014	Eden	NY 773097	NWWA	69.4
067013	Hennant	SH 946349	WELS	33.9	076015	Eamont	NY 472249	NWWA	145.0
067015	Dee	SJ 348415	WELS	1019.3	077001	Esk	NY 390718	NWWA	841.7
067016	Worthenbury Brook	SJ 418464	WELS	142.1	077002	Esk	NY 397751	SRPB	495.0
067017	Tryneryn	SH 880399	WELS	58.9	077003	Luddel Water	NY 415759	SRPB	319.0
067018	Dee	SH 874308	WELS	53.9	077004	Kirtle Water	NY 285693	SRPB	72.0
067025	Chyredog	SJ 396483	WELS	98.6	077005	Lyne	NY 417662	NWWA	191.0
067028	Cerdog	SJ 034371	WELS	36.5	078001	Annan	NY 125755	SRPB	730.3
067029	Trysion	SJ 066405	WELS	12.3	078002	Ae	NY 068852	SRPB	143.2
068001	Weaver	SJ 670633	NWWA	622.0	078003	Annan	NY 191704	SRPB	925.0
068002	Gowy	SJ 443714	NWWA	156.2	078004	Kinnel Water	NY 077868	SRPB	76.1
068003	Dane	SJ 688718	NWWA	407.1	078005	Kinnel Water	NY 091845	SRPB	229.0
068004	Winstan Brook	SJ 674552	NWWA	92.7	079001	Afton Water	NX 631050	SRPB	8.5
068005	Weaver	SJ 853431	NWWA	207.0	079002	Nith	NX 923851	SRPB	789.0
068006	Dane	SJ 845646	NWWA	150.0	079003	Nith	NX 684129	SRPB	155.0
068007	Wincham Brook	SJ 697757	NWWA	148.0	079004	Scar Water	NX 845940	SRPB	142.0
068010	Fander	SJ 281880	NWWA	18.4	079005	Cluden Water	NX 928795	SRPB	238.0
068011	Arley Brook	SJ 696799	NWWA	36.5	079006	Nith	NX 858994	SRPB	471.0

Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
080001	Urr	NX 822810	SRPB	199.0	086001	Little Eachaig	NS 143821	CRPB	30.8
080002	Dee	NX 733841	SRPB	809.0	086002	Eachaig	NS 140843	CRPB	139.9
081001	* Penrhihirn Burn	NX 128894	DGRW	18.2	090003	Nevis	NN 116742	HRPB	76.8
081002	Cree	NX 412653	SRPB	368.0	091002	Lochy	NN 145805	HRPB	1252.0
081003	Luce	NX 180599	SRPB	171.0	093001	Carron	NG 942429	HRPB	137.8
081004	Bladnoch	NX 382545	SRPB	334.0	094001	Ewe	NG 859803	HRPB	441.1
082001	Gairn	NX 217997	CRPB	245.5	095001	Inver	NC 147250	HRPB	137.5
082002	Doon	NS 338160	CRPB	323.8	096001	HaRadale	NC 891561	HRPB	204.8
082003	Stinchur	NX 108832	CRPB	341.0	096002	Naver	NC 713568	HRPB	477.0
083002	* Garnock	NS 293488	CRPB	88.8	097001	Calder Burn	ND 085596	HRCW	24.5
083003	Ayr	NS 525259	CRPB	186.3	097002	Thurso	ND 131595	HRPB	412.8
083004	Lugar	NS 508217	CRPB	181.0	101001	Eastern Yar	SZ 577857	SWA	57.5
083005	Inver	NS 345369	CRPB	380.7	101002	Medina	SZ 503874	SWA	29.8
084001	Kelvin	NS 558705	CRPB	335.1	201002	Fairy Water	IH 406758	DOEN	161.2
084002	Calder	NS 309838	SRCW	12.4	201005	Camowen	IH 460730	DOEN	274.8
084003	Chyde	NS 835452	CRPB	1092.9	201006	Drumragh	IH 458722	DOEN	324.6
084004	Chyde	NS 927424	CRPB	741.8	201007	Burn Denmet	IC 372047	DOEN	145.3
084005	Chyde	NS 704579	CRPB	1704.2	201008	Derg	IH 265842	DOEN	337.3
084006	Kelvin	NS 872749	CRPB	63.7	203010	Blackwater	IH 820519	DOEN	951.4
084007	South Calder Wtr	NS 751585	CRPB	93.0	203011	Main	ID 052086	DOEN	228.8
084008	Rotten Calder Wtr	NS 679604	CRPB	51.3	203012	Ballinderry	IH 926799	DOEN	419.5
084009	Nethan	NS 809429	CRPB	68.0	203017	Upper Bann	IJ 043509	DOEN	335.6
084011	Gryfe	NS 415684	CRPB	71.0	203018	Six Mile Water	IJ 146867	DOEN	277.3
084012	White Cart Water	NS 498629	CRPB	234.9	203020	Moyola	IH 955905	DOEN	306.5
084013	Chyde	NS 672616	CRPB	1903.1	203021	Kells Water	IJ 106971	DOEN	127.0
084014	Avon Water	NS 755518	CRPB	265.5	203025	Callan	IH 893524	DOEN	164.1
084015	Kelvin	NS 638739	CRPB	235.4	203027	Braid	ID 097014	DOEN	177.2
084016	Luggie Water	NS 739725	CRPB	33.9	203028	Agavey	IC 883193	DOEN	98.9
084017	Black Cart Water	NS 411620	CRPB	103.1	203033	Upper Bann	IJ 233341	DOEN	100.9
084018	Chyde	NS 891404	CRPB	932.6	204001	Bush	IC 942382	DOEN	306.1
084019	North Calder Wtr	NS 681625	CRPB	129.8	205003	Lagan	IJ 299879	DOEN	444.7
084020	Glazart Water	NS 658763	CRPB	51.9	205004	Lagan	IJ 329893	DOEN	490.4
084021	* White Cart Water	NS 587597	CRPB	91.6	205005	Ravenet	IJ 267613	DOEN	69.5
084022	Duneston	NS 929259	CRPB	110.3	205008	Lagan	IJ 236525	DOEN	85.2
084023	Bothlin Burn	NS 680717	CRPB	35.7					
084024	North Calder Wtr	NS 828878	CRPB	19.9					
084025	Luggie Water	NS 666734	CRPB	87.7					
084027	* North Calder Wtr	NS 765624	CRPB	60.6					
085001	Leven	NS 394803	CRPB	784.3					
085002	Endrick Water	NS 485886	CRPB	219.9					
085003	Falloch	NN 321197	CRPB	80.3					

* = closed

Refer to page 166 for key to measuring authorities

Gauged daily flows, monthly peaks and monthly rainfall

KEY:

Complete daily and complete peaks
Complete daily and partial peaks
Complete daily and no peaks
Partial daily and complete peaks
Partial daily and partial peaks
Partial daily and no peaks
No flow data

Complete
rainfall
A
B
C
D
E
F
†

Incomplete or
missing rainfall
a
b
c
d
e
f
-

Summary is presented
in decade blocks

Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall
002001	70s -----ssss 80s sAAAs	015003	40s -----fcC 50s CBAAAAAA 60s AAAAAAAA 70s AAAAAAAA	021006	60s -EAAAAAAA 70s AAAAAAAA 80s AAA†
003001	50s ---eAAAs 60s sAAAs	015004	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021007	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
003002	70s -----ssss 80s sAAAs	015005	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021008	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
003003	70s -----ssss 80s sAAAs	015006	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021009	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
003004	70s -----ssss 80s sAAAs	015007	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021010	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
003005	80s -----ssss	015008	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021011	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
004001	50s ---eAAEA 60s BABABAAAA 70s E†††††AAAA 80s AAAAA	015009	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021012	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
004003	70s -----ssss 80s sAAAs	015010	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021013	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
004004	80s -----ssss	015011	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021014	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
005001	50s ---eAAAAA 60s AAE---†††† 70s ††††	015012	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021015	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
006001	30s ---eAAAB 40s BBBABBBBA 50s E†††††AAAA 60s AAE†††††† 70s ††††	015013	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021016	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
006006	50s ---eAAAAA 60s BAe 70s AAAAAA 80s AAAAA	015014	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021017	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
006007	70s -----ssss 80s sAAAs	015015	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021018	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
006008	70s -----ssss 80s sAAAs	015016	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021019	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
007001	60s sAAAAAAA 70s AAAAAAAA 80s AAAAA	015017	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021020	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
007002	50s ---eAA 60s AAAAAAAA 70s AAAAAA 80s AAAAA	015018	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021021	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
007003	60s ---eAAAAA 70s AABAAAAA 80s AAAAA	015019	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021022	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
007004	70s -----ssss 80s sAAAs	015020	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021023	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
007005	80s -----cc	015021	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021024	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
008001	30s -----fc 40s Hcccccccc 50s bBBBBAAAA 60s AAAAAAAA 70s AAAAA††† 80s AAAAA	015022	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021025	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
008002	50s ---eAAABAAA 60s AAAAAAAA 70s AAAAAA 80s AAAAA	015023	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021026	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
008003	50s ---eAAAAAAA 60s AAAAAAAA 70s AAAAA††† 80s AAAAA	015024	20s ---CCC 30s CCCCCCBAe- 40s ---††† 50s EE†††††† 60s AAAAAAAE† 70s ††††††††	021027	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
008004	50s ---eAAAAAAA 60s AAAAAAAA 70s AAAAA††† 80s AAAAA	016001	40s -----cc 50s cBAAbbsAAA 60s AAAAAAAA 70s AAAAAAAA	021028	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
008005	50s ---eAAAAAAA 60s AAAAAAAA 70s AAAAA††† 80s AAAAA	016002	40s -----cc 50s cBAAbbsAAA 60s AAAAAAAA 70s AAAAAAAA	021029	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
008006	50s ---eAAAAAAA 60s AAAAAAAA 70s AAAAA††† 80s AAAAA	016003	40s -----cc 50s cBAAbbsAAA 60s AAAAAAAA 70s AAAAAAAA	021030	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
008007	50s ---eAAAAAAA 60s AAAAAAAA 70s AAAAA††† 80s AAAAA	016004	40s -----cc 50s cBAAbbsAAA 60s AAAAAAAA 70s AAAAAAAA	021031	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
008008	50s ---eAAAAAAA 60s AAAAAAAA 70s AAAAA††† 80s AAAAA	017001	60s ---E 70s AAAAAAAs 80s AAAAA	021032	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
008009	50s ---eAAAAAAA 60s AAAAAAAA 70s AAAAA††† 80s AAAAA	017002	60s ---E 70s AAAAAAAs 80s AAAAA	021033	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
008010	50s ---eAAAAAAA 60s AAAAAAAA 70s AAAAA††† 80s AAAAA	017003	60s ---E 70s AAAAAAAs 80s AAAAA	021034	60s -EAAAAAAA 70s AAAAAAAA 80s AAET
009001	50s -----e 60s AAAAAAAA 70s AAAAA††† 80s AAAAA	017004	60s ---E 70s AAAAAAAs 80s AAAAA	022001	60s -----eAAA 70s AAAAAAAA 80s AAAAA
009002	60s eAAAAAAA 70s AAAAAAAs 80s AAAAA	017005	60s ---E 70s AAAAAAAs 80s AAAAA	022002	60s -----eAAA 70s AAAAAAAA 80s AAAAA
009003	60s ---†††††††† 70s AAAAAAAs 80s AAAAA	018001	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	022003	60s -----eAAA 70s AAAAAAAA 80s AAAAA
009004	80s eaaa†	018002	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	022004	60s -----eAAA 70s AAAAAAAA 80s AAAAA
010001	60s ---††††EAAA 70s ABAAAAAAs 80s ACCc	018003	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	022005	60s -----eAAA 70s AAAAAAAA 80s AAAAA
010002	60s ---†††††††† 70s †EABAAAAA 80s AAAAA	018004	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	022006	60s -----eAAA 70s AAAAAAAA 80s AAAAA
010003	80s ---e†	018005	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	022007	60s -----eAAA 70s AAAAAAAA 80s AAAAA
011001	60s ---†††††††† 70s AAAAAAAs 80s AAAAA	018006	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	022008	60s -----eAAA 70s AAAAAAAA 80s AAAAA
011002	60s ---†††††††† 70s CBAAAAAA 80s AAAAA	018007	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	022009	60s -----eAAA 70s AAAAAAAA 80s AAAAA
011003	60s ---†††††††† 70s †††EAAAAA 80s AAAAA	018008	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	023001	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
012001	20s -----e 30s BBBBBAAB 40s CCCCCCCCCC 50s CCCCCCCCCC 60s AAAAA	018009	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	023002	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
012002	70s ---eAAAAAAA 80s AAAAA† 90s AAAAA	018010	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	023003	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
012003	70s -----ssss 80s AAAAA† 90s AAAAA	018011	50s -----EAAA 60s AAAAAAAA 70s AAAAAAAs	023004	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
012004	70s -----ssss 80s AAAAA† 90s AAAAA	020001	60s ---AAAAAAA 70s AAAAAAAs 80s AAAAA	023005	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
012005	70s -----ssss 80s AAAAA† 90s AAAAA	020002	60s ---AAAAAAA 70s AAAAAAAs 80s AAAAA	023006	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
012006	70s -----ssss 80s AAAAA† 90s AAAAA	020003	60s ---AAAAAAA 70s AAAAAAAs 80s AAAAA	023007	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
012007	80s ---df	020004	60s ---AAAAAAA 70s AAAAAAAs 80s AAAAA	023008	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
013001	70s -----e 80s sAAAI 90s AAAAA	020005	60s ---AAAAAAA 70s AAAAAAAs 80s AAAAA	023009	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
013002	80s ---cc	020006	60s ---AAAAAAA 70s AAAAAAAs 80s AAAAA	023010	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
013003	70s -----c 80s ccc 90s AAAAA	020007	60s ---AAAAAAA 70s AAAAAAAs 80s AAAAA	023011	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
013005	80s ---ccc	021001	50s -----e 60s AAAAAEAAE† 70s ††††††††	023012	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
013007	70s -----cccc 80s cccc 90s AAAAA	021002	50s -----e 60s AAAAAEAAE† 70s ††††††††	023013	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
013008	80s ---a	021003	50s -----e 60s AAAAAEAAE† 70s ††††††††	023014	50s -----eAAA 60s AAAAAAAA 70s AAAAAAAs
014001	60s ---†††††EAA 70s AAAAAAAs 80s AAAAA	021004	50s -----e 60s AAAAAEAAE† 70s ††††††††	023015	40s ---†EEEEE 50s EAAE†††††
014002	60s ---†††††EAA 70s AAAAAAAs 80s AAAAA	021005	50s -----e 60s AAAAAEAAE† 70s ††††††††	024001	50s ---fcc 60s CCCCCCBAA 70s AAAAAAAs 80s AAAAA
015001	50s ---e 60s eAAAAAAE† 70s †††† 80s AAAAAAEE†	021006	50s -----e 60s AAAAAEAAE† 70s ††††††††	024002	50s ---ga 60s AAAAAAAs 70s AAAAAAAs 80s AAAAA
015002	50s ---e 60s AAAAAAEE† 70s ††††††††			024003	50s ---ga 60s AAAAAAAs 70s AAAAAAAs 80s AAAAA

[illegible]

Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall
032008	40s -----AAAB 60s B888BAEAE 80s AAAA	034004	60s aAAAAA 80s ABAA	037026	60s -----CBAAE 80s ---↑
032012	60s -----E 80s EEE	034006	60s -----aAAAAA 80s ABAA	037028	60s -----bbae 80s teebbae
032015	60s -----E 80s EEE	034008	60s -----aAB 80s AAAA	037030	60s -----bae 80s ebae
032016	70s -----EEEEE 80s EEE	034010	60s -----a 80s ABAA	037032	60s -----EBBAA 80s EEE
032019	70s -----EEEEE 80s EEE	034012	60s -----aAA 80s ABAA	037034	60s -----a 80s ebae
032020	70s EAAAEAB 80s EEE	034014	60s -----a 80s ABAA	037036	60s -----a 80s ebae
032023	70s -----EEEEE 80s EEE	034016	60s -----aAA 80s ABAA	037038	60s -----a 80s ebae
032024	70s -----EEEEE 80s EEE	034018	60s -----aAA 80s ABAA	037040	60s -----a 80s ebae
032026	70s -----EEEEE 80s EEE	034020	60s -----aAA 80s ABAA	037042	60s -----a 80s ebae
032028	70s -----EEEEE 80s EEE	034022	60s -----aAA 80s ABAA	037044	60s -----a 80s ebae
032030	70s -----E 80s eEE	034024	60s -----aAA 80s ABAA	037046	60s -----a 80s ebae
032031	80s -----e	034026	60s -----aAA 80s ABAA	037048	60s -----a 80s ebae
033001	30s -----fcCC 50s FFCFCC 70s FFCFCC	034028	60s -----aAA 80s ABAA	037050	60s -----a 80s ebae
033002	30s -----fcCB 50s FFCFCC 70s FFCFCC	034030	60s -----aAA 80s ABAA	037052	60s -----a 80s ebae
033003	30s -----HCC 50s BAEABBC 70s ACCFCC	034032	60s -----aAA 80s ABAA	037054	60s -----a 80s ebae
033004	30s -----HCC 50s BAEABBC 70s ACCFCC	034034	60s -----aAA 80s ABAA	037056	60s -----a 80s ebae
033005	30s -----HCC 50s BAEABBC 70s ACCFCC	034036	60s -----aAA 80s ABAA	037058	60s -----a 80s ebae
033006	30s -----HCC 50s BAEABBC 70s ACCFCC	034038	60s -----aAA 80s ABAA	037060	60s -----a 80s ebae
033007	30s -----HCC 50s BAEABBC 70s ACCFCC	034040	60s -----aAA 80s ABAA	037062	60s -----a 80s ebae
033008	30s -----HCC 50s BAEABBC 70s ACCFCC	034042	60s -----aAA 80s ABAA	037064	60s -----a 80s ebae
033009	30s -----HCC 50s BAEABBC 70s ACCFCC	034044	60s -----aAA 80s ABAA	037066	60s -----a 80s ebae
033011	30s -----HCC 50s BAEABBC 70s ACCFCC	034046	60s -----aAA 80s ABAA	037068	60s -----a 80s ebae
033012	30s -----HCC 50s BAEABBC 70s ACCFCC	034048	60s -----aAA 80s ABAA	037070	60s -----a 80s ebae
033013	30s -----HCC 50s BAEABBC 70s ACCFCC	034050	60s -----aAA 80s ABAA	037072	60s -----a 80s ebae
033014	30s -----HCC 50s BAEABBC 70s ACCFCC	034052	60s -----aAA 80s ABAA	037074	60s -----a 80s ebae
033015	30s -----HCC 50s BAEABBC 70s ACCFCC	034054	60s -----aAA 80s ABAA	037076	60s -----a 80s ebae
033016	30s -----HCC 50s BAEABBC 70s ACCFCC	034056	60s -----aAA 80s ABAA	037078	60s -----a 80s ebae
033017	30s -----HCC 50s BAEABBC 70s ACCFCC	034058	60s -----aAA 80s ABAA	037080	60s -----a 80s ebae
033018	30s -----HCC 50s BAEABBC 70s ACCFCC	034060	60s -----aAA 80s ABAA	037082	60s -----a 80s ebae
033019	30s -----HCC 50s BAEABBC 70s ACCFCC	034062	60s -----aAA 80s ABAA	037084	60s -----a 80s ebae
033020	30s -----HCC 50s BAEABBC 70s ACCFCC	034064	60s -----aAA 80s ABAA	037086	60s -----a 80s ebae
033021	30s -----HCC 50s BAEABBC 70s ACCFCC	034066	60s -----aAA 80s ABAA	037088	60s -----a 80s ebae
033022	30s -----HCC 50s BAEABBC 70s ACCFCC	034068	60s -----aAA 80s ABAA	037090	60s -----a 80s ebae
033023	30s -----HCC 50s BAEABBC 70s ACCFCC	034070	60s -----aAA 80s ABAA	037092	60s -----a 80s ebae
033024	30s -----HCC 50s BAEABBC 70s ACCFCC	034072	60s -----aAA 80s ABAA	037094	60s -----a 80s ebae
033025	30s -----HCC 50s BAEABBC 70s ACCFCC	034074	60s -----aAA 80s ABAA	037096	60s -----a 80s ebae
033026	30s -----HCC 50s BAEABBC 70s ACCFCC	034076	60s -----aAA 80s ABAA	037098	60s -----a 80s ebae
033027	30s -----HCC 50s BAEABBC 70s ACCFCC	034078	60s -----aAA 80s ABAA	037100	60s -----a 80s ebae
033028	30s -----HCC 50s BAEABBC 70s ACCFCC	034080	60s -----aAA 80s ABAA	037102	60s -----a 80s ebae
033029	30s -----HCC 50s BAEABBC 70s ACCFCC	034082	60s -----aAA 80s ABAA	037104	60s -----a 80s ebae
033030	30s -----HCC 50s BAEABBC 70s ACCFCC	034084	60s -----aAA 80s ABAA	037106	60s -----a 80

Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall
039028	60s -----EA 70s AAAAAAAAAA	041015	60s -----EAA 70s AAADDAADDD	047001	50s -----AAAA 60s AAAAAAAAAEEE
039029	80s AAAAe 60s -----fEA 70s AAAAAAaAAAA	041016	80s DAAAA 30s -----f 40s cccccccccc	047002	70s AAAAAAAAAAAAA 50s -----AAAA
039030	80s AAAAe 70s EAAAAAAAAAAAA	041017	50s cccccccccc 60s ccccccccccBAA	047003	70s ffffffff 50s -----ebe
039031	60s -----eaa 70s aaaaaa	041018	60s -----e 70s aaaaaa	047004	70s ffffffff 60s -----eae
039032	80s AAAF 60s -----aa 70s aaaaaa	041019	80s DAAAA 70s aaaaaa	047005	80s AAAC 60s -----AAAA
039033	60s -----aa 70s aaaaaa	041020	60s -----e 70s aBAABAAAA	047006	80s AF 60s -----AAAF
039034	70s aAAAAAAAAA 80s AAAAe	041021	60s AAADe 70s aBAABBBFD	047007	80s AF 60s -----aABAA
039035	60s -----fE 70s AAAAAAAAAA	041022	60s -----e 80s ADAAe	047008	80s AAAC 60s -----e
039036	80s AAAAe 60s -----aa 70s aaaaaa	041023	80s ABBB 80s BBEe	047009	80s AAAC 60s -----E
039037	70s -----fE 80s AAAAe	041024	70s fBBB 80s DAAa	047010	70s fEAAAAAA 80s AAAC
039038	60s -----ca 70s aaaaaa	041025	70s -----E 80s AAAAe	047011	70s -----E 80s AF
039040	80s AAEE 70s fEAAAAAA	041026	70s -----E 80s AAAAe	047012	70s -----E 80s ACCC
039042	70s -----E 80s AAAAe	041027	70s -----E 80s AAAAe		
039043	60s -----eaa 70s AAAAAAAAAA	041028	60s -----eaa 80s DADDe		
039044	80s AAAAe 70s -----E 80s AAAAe	042001	50s -----KCCCCCCC 60s CCCCCCCCCC	048001	50s -----eAA 60s AAAAAAE
039045	70s -----E 80s AAAAe	042002	50s -----f 60s ffffffff	048002	70s fcbAAAAA 60s AAAC
039046	60s -----eaa 70s AAAAAAAAAA	042003	60s KCCCCCCCCC 70s CCCCCCBAAA	048003	80s -----e 70s aAAAAAAE
039047	80s AAAAe 50s -----aa 60s eaaaaa	042004	80s DAAa 50s -----f 60s CCCCCCCCCC	048004	80s AAAC 60s -----E
039048	70s -----E 80s AAAAe	042005	50s -----KCCCCCCCCC 60s CCCCCCCCCC	048005	80s AAAC 60s -----E
039049	60s -----E 80s AAAAe	042006	50s -----KCCCCCCCCC 60s CCCCCCCCCC	048006	80s AAAC 60s -----E
039050	80s AAAAe 70s AAAAAAAAAA	042007	50s -----KCCCCCCCCC 60s CCCCCCCCCC	048007	80s AAAC 60s -----E
039051	80s AAAAe 50s -----aa 60s eaaaaa	042008	70s CCCCCBAAA 80s AAAAe	048008	70s fEAAAAAA 80s AAAC
039052	50s -----aa 60s eaaaaa	042009	70s fcccbbaad 80s AAABe	048009	70s fEAAAAAA 80s AAAC
039053	70s -----E 80s AAAAe	042010	50s -----f 60s cccccccccc	048010	70s fEAAAAAA 80s AAAC
039054	80s AAAAe 70s AAAAAAAAAA	042011	70s -----f 80s cccCf	048011	70s -----E 80s AAAC
039055	80s e 70s -----f 80s AAABe	042012	70s -----f 80s cccCf	049001	60s -----E 70s AAAAAAAE
039056	80s e 70s -----f 80s AAABe	042013	70s -----f 80s cccCf	049002	50s -----f 60s ffffffff
039057	80s e 70s -----f 80s AAABe	042014	70s -----f 80s cccCf	049003	60s -----E 70s ABEEFAAAAA
039058	80s e 70s -----f 80s AAABe	042015	70s -----f 80s cccCf	049004	60s -----E 70s AAAAAAAE
039059	80s e 70s -----f 80s AAABe	042016	70s -----f 80s cccCf	050001	50s -----E 60s AAAAAAAE
039060	80s e 70s -----f 80s AAABe	042017	70s -----f 80s cccCf	050002	60s -----E 70s AAAAAAAE
039061	80s e 70s -----f 80s AAABe	042018	70s -----f 80s cccCf	050003	60s -----E 70s AAAAAAAE
039062	80s e 70s -----f 80s AAABe	042019	70s -----f 80s cccCf	050004	60s -----E 70s AAAAAAAE
039063	80s e 70s -----f 80s AAABe	042020	70s -----f 80s cccCf	051001	60s -----E 70s AAAAAAAE
039064	80s e 70s -----f 80s AAABe	042021	70s -----f 80s cccCf	051002	70s -----E 70s AAAAAAAE
039065	80s e 70s -----f 80s AAABe	042022	70s -----f 80s cccCf	052001	50s -----E 60s AAAAAAAE
039066	80s e 70s -----f 80s AAABe	042023	70s -----f 80s cccCf	052002	50s -----E 60s AAAAAAAE
039067	80s e 70s -----f 80s AAABe	042024	70s -----f 80s cccCf	052003	60s -----E 70s AAAAAAAE
039068	80s e 70s -----f 80s AAABe	042025	70s -----f 80s cccCf	052004	60s -----E 70s AAAAAAAE
039069	80s e 70s -----f 80s AAABe	042026	70s -----f 80s cccCf	052005	60s -----E 70s AAAAAAAE
039070	80s e 70s -----f 80s AAABe	042027	70s -----f 80s cccCf	052006	60s -----E 70s AAAAAAAE
039071	80s e 70s -----f 80s AAABe	042028	70s -----f 80s cccCf	052007	60s -----E 70s AAAAAAAE
039072	80s e 70s -----f 80s AAABe	042029	70s -----f 80s cccCf	052008	60s -----E 70s AAAAAAAE
039073	80s e 70s -----f 80s AAABe	042030	70s -----f 80s cccCf	052009	60s -----E 70s AAAAAAAE
039074	80s e 70s -----f 80s AAABe	042031	70s -----f 80s cccCf	052010	60s -----E 70s AAAAAAAE
039075	80s e 70s -----f 80s AAABe	042032	70s -----f 80s cccCf	052011	60s -----E 70s AAAAAAAE
039076	80s e 70s -----f 80s AAABe	042033	70s -----f 80s cccCf	052012	60s -----E 70s AAAAAAAE
039077	80s e 70s -----f 80s AAABe	042034	70s -----f 80s cccCf	052013	60s -----E 70s AAAAAAAE
039078	80s e 70s -----f 80s AAABe	042035	70s -----f 80s cccCf	052014	60s -----E 70s AAAAAAAE
039079	80s e 70s -----f 80s AAABe	042036	70s -----f 80s cccCf	052015	60s -----E 70s AAAAAAAE
039080	80s e 70s -----f 80s AAABe	042037	70s -----f 80s cccCf	052016	60s -----E 70s AAAAAAAE
039081	80s e 70s -----f 80s AAABe	042038	70s -----f 80s cccCf	052017	60s -----E 70s AAAAAAAE
039082	80s e 70s -----f 80s AAABe	042039	70s -----f 80s cccCf	052018	60s -----E 70s AAAAAAAE
039083	80s e 70s -----f 80s AAABe	042040	70s -----f 80s cccCf	052019	60s -----E 70s AAAAAAAE
039084	80s e 70s -----f 80s AAABe	042041	70s -----f 80s cccCf	052020	60s -----E 70s AAAAAAAE
039085	80s e 70s -----f 80s AAABe	042042	70s -----f 80s cccCf	052021	60s -----E 70s AAAAAAAE
039086	80s e 70s -----f 80s AAABe	042043	70s -----f 80s cccCf	052022	60s -----E 70s AAAAAAAE
039087	80s e 70s -----f 80s AAABe	042044	70s -----f 80s cccCf	052023	60s -----E 70s AAAAAAAE
039088	80s e 70s -----f 80s AAABe	042045	70s -----f 80s cccCf	052024	60s -----E 70s AAAAAAAE
040001	50s -----E 60s AAAAAAAE	043001	60s -----E 70s AAAAAAAE	053001	50s -----E 60s AAAAAAAE
040002	50s -----E 60s AAAAAAAE	043002	60s -----E 70s AAAAAAAE	053002	50s -----E 60s AAAAAAAE
040003	50s -----E 60s AAAAAAAE	043003	60s -----E 70s AAAAAAAE	053003	50s -----E 60s AAAAAAAE
040004	50s -----E 60s AAAAAAAE	043004	60s -----E 70s AAAAAAAE	053004	50s -----E 60s AAAAAAAE
040005	50s -----E 60s AAAAAAAE	043005	60s -----E 70s AAAAAAAE	053005	50s -----E 60s AAAAAAAE
040006	50s -----E 60s AAAAAAAE	043006	60s -----E 70s AAAAAAAE	053006	50s -----E 60s AAAAAAAE
040007	50s -----E 60s AAAAAAAE	043007	60s -----E 70s AAAAAAAE	053007	50s -----E 60s AAAAAAAE
040008	50s -----E 60s AAAAAAAE	043008	60s -----E 70s AAAAAAAE	053008	50s -----E 60s AAAAAAAE
040009	50s -----E 60s AAAAAAAE	043009	60s -----E 70s AAAAAAAE	053009	50s -----E 60s AAAAAAAE
040010	50s -----E 60s AAAAAAAE	043010	60s -----E 70s AAAAAAAE	053010	50s -----E 60s AAAAAAAE
040011	50s -----E 60s AAAAAAAE	043011	60s -----E 70s AAAAAAAE	053011	50s -----E 60s AAAAAAAE
040012	50s -----E 60s AAAAAAAE	043012	60s -----E 70s AAAAAAAE	053012	50s -----E 60s AAAAAAAE
040013	50s -----E 60s AAAAAAAE	043013	60s -----E 70s AAAAAAAE	053013	50s -----E 60s AAAAAAAE
040014	50s -----E 60s AAAAAAAE	043014	60s -----E 70s AAAAAAAE	053014	50s -----E 60s AAAAAAAE
040015	50s -----E 60s AAAAAAAE	043015	60s -----E 70s AAAAAAAE	053015	50s -----E 60s AAAAAAAE
040016	50s -----E 60s AAAAAAAE	043016	60s -----E 70s AAAAAAAE	053016	50s -----E 60s AAAAAAAE
040017	50s -----E 60s AAAAAAAE	043017	60s -----E 70s AAAAAAAE	053017	50s -----E 60s AAAAAAAE
040018	50s -----E 60s AAAAAAAE	043018	60s -----E 70s AAAAAAAE	053018	50s -----E 60s AAAAAAAE
040019	50s -----E 60s AAAAAAAE	043019	60s -----E 70s AAAAAAAE	053019	50s -----E 60s AAAAAAAE
040020	50s -----E 60s AAAAAAAE	043020	60s -----E 70s AAAAAAAE	053020	50s -----E 60s AAAAAAAE
040021	50s -----E 60s AAAAAAAE	043021	60s -----E 70s AAAAAAAE	053021	50s -----E 60s AAAAAAAE
040022	50s -----E 60s AAAAAAAE	043022	60s -----E 70s AAAAAAAE	053022	50s -----E 60s AAAAAAAE
040023	50s -----E 60s AAAAAAAE	043023	60s -----E 70s AAAAAAAE	053023	50s -----E 60s AAAAAAAE
040024	50s -----E 60s AAAAAAAE	043024	60s -----E 70s AAAAAAAE	053024	50s -----E 60s AAAAAAAE
041001	50s -----E 60s AAAAAAAE	044001	50s -----E 60s AAAAAAAE	054001	50s -----E 60s AAAAAAAE
041002	50s -----E 60s AAAAAAAE	044002	50s -----E 60s AAAAAAAE	054002	50s -----E 60s AAAAAAAE
041003	50s -----E 60s AAAAAAAE	044003	50s -----E 60s AAAAAAAE	054003	50s -----E 60s AAAAAAAE
041004	50s -----E 60s AAAAAAAE	044004	50s -----E 60s AAAAAAAE	054004	50s -----E 60s AAAAAAAE
041005	50s -----E 60s AAAAAAAE	044005	50s -----E 60s AAAAAAAE	054005	50s -----E 60s AAAAAAAE
041006	50s -----E 60s AAAAAAAE	044006	50s -----E 60s AAAAAAAE	054006	50s -----E 60s AAAAAAAE
041007	50s -----E 60s AAAAAAAE	044007	50s -----E 60s AAAAAAAE	054007	50s -----E 60s AAAAAAAE
041008	50s -----E 60s AAAAAAAE	044008	50s -----E 60s AAAAAAAE	054008	50s -----E 60s AAAAAAAE
041009	50s -----E 60s AAAAAAAE	044009	50s -----E 60s AAAAAAAE	054009	50s -----E 60s AAAAAAAE
041010	50s -----E 60s AAAAAAAE	044010	50s -----E 60s AAAAAAAE	054010	50s -----E 60s AAAAAAAE
041011	50s -----E 60s AAAAAAAE	044011	50s -----E 60s AAAAAAAE	054011	50s -----E 60s AAAAAAAE
041012	50s -----E 60s AAAAAAAE	044012	50s -----E 60s AAAAAAAE	054012	50s -----E 60s AAAAAAAE
041013	50s -----E 60s AAAAAAAE	044013	50s -----E 60s AAAAAAAE	054013	50s -----E 60s AAAAAAAE
041014	50s -----E 60s AAAAAAAE	044014	50s -----E 60s AAAAAAAE	054014	50s -----E 60s AAAAAAAE

[illegible]

Strn. number	Gauged daily flows, monthly peaks and rainfall	Strn. number	Gauged daily flows, monthly peaks and rainfall	Strn. number	Gauged daily flows, monthly peaks and rainfall	Strn. number	Gauged daily flows, monthly peaks and rainfall
068007	60s ---eAAAAA 70s AAAAAFAAFA	074003	70s ---eEAAAA 80s AAAA	084004	50s -----eA 60s AAAAAAAs	068010	60s -eAAAAA 70s AAAAAAAs
068010	80s AAEa 80s AAEa	074005	70s ---eBAAAA 80s AAAA	084005	50s -----eA 60s AAAAAAAs	068011	70s -----f 80s AAAAAAAs
068011	70s -----f 80s AAAAAAAs	074006	60s ---eCcc 70s cct-bBBA	084006	50s -----eA 60s AAAAAAAs	068018	70s -----f 80s AAAAAAAs
068017	70s -----f 80s AAAAAAAs	074007	70s -----E-f 80s fEA	084007	60s -----eA 70s AAAAAAAs	068019	80s AAEf 80s AAAAAAAs
068018	70s -----f 80s AAAAAAAs	074008	70s -----E-f 80s fEA	084008	60s -----eA 70s AAAAAAAs	068020	80s AAEf 80s AAAAAAAs
069001	30s ---eBBA 40s BBBBBBBBBB	075001	30s ffffffAEf 40s ffffffEAAAA	084009	60s -----eA 70s AAAAAAAs	069002	40s -----e 50s AAAAAAAs
069002	60s AAAAAAAs 70s AAAAAAAs	075002	70s ffffffAEf 80s ffffffEAAAA	084010	60s -----eA 70s AAAAAAAs	069003	40s -----e 50s AAAAAAAs
069003	60s AAAAAAAs 70s AAAAAAAs	075003	80s AAAAAAAs 70s AAAAAAAs	084011	60s -----eA 70s AAAAAAAs	069004	40s -----e 50s AAAAAAAs
069004	40s -----e 50s AAAAAAAs	075004	60s AAAAAAAs 70s AAAAAAAs	084012	60s -----eA 70s AAAAAAAs	069005	40s -----e 50s AAAAAAAs
069005	40s -----e 50s AAAAAAAs	075005	60s AAAAAAAs 70s AAAAAAAs	084013	60s -----eA 70s AAAAAAAs	069006	40s -----e 50s AAAAAAAs
069006	40s -----e 50s AAAAAAAs	075006	60s AAAAAAAs 70s AAAAAAAs	084014	60s -----eA 70s AAAAAAAs	069007	40s -----e 50s AAAAAAAs
069007	40s -----e 50s AAAAAAAs	075007	60s AAAAAAAs 70s AAAAAAAs	084015	60s -----eA 70s AAAAAAAs	069008	40s -----e 50s AAAAAAAs
069008	40s -----e 50s AAAAAAAs	075008	60s AAAAAAAs 70s AAAAAAAs	084016	60s -----eA 70s AAAAAAAs	069009	40s -----e 50s AAAAAAAs
069009	40s -----e 50s AAAAAAAs	075009	60s AAAAAAAs 70s AAAAAAAs	084017	60s -----eA 70s AAAAAAAs	069010	40s -----e 50s AAAAAAAs
069010	40s -----e 50s AAAAAAAs	075010	60s AAAAAAAs 70s AAAAAAAs	084018	60s -----eA 70s AAAAAAAs	069011	40s -----e 50s AAAAAAAs
069011	40s -----e 50s AAAAAAAs	075011	60s AAAAAAAs 70s AAAAAAAs	084019	60s -----eA 70s AAAAAAAs	069012	40s -----e 50s AAAAAAAs
069012	40s -----e 50s AAAAAAAs	075012	60s AAAAAAAs 70s AAAAAAAs	084020	60s -----eA 70s AAAAAAAs	069013	40s -----e 50s AAAAAAAs
069013	40s -----e 50s AAAAAAAs	075013	60s AAAAAAAs 70s AAAAAAAs	084021	60s -----eA 70s AAAAAAAs	069014	40s -----e 50s AAAAAAAs
069014	40s -----e 50s AAAAAAAs	075014	60s AAAAAAAs 70s AAAAAAAs	084022	60s -----eA 70s AAAAAAAs	069015	40s -----e 50s AAAAAAAs
069015	40s -----e 50s AAAAAAAs	075015	60s AAAAAAAs 70s AAAAAAAs	084023	60s -----eA 70s AAAAAAAs	069016	40s -----e 50s AAAAAAAs
069016	40s -----e 50s AAAAAAAs	075016	60s AAAAAAAs 70s AAAAAAAs	084024	60s -----eA 70s AAAAAAAs	069017	40s -----e 50s AAAAAAAs
069017	40s -----e 50s AAAAAAAs	075017	60s AAAAAAAs 70s AAAAAAAs	084025	60s -----eA 70s AAAAAAAs	069018	40s -----e 50s AAAAAAAs
069018	40s -----e 50s AAAAAAAs	075018	60s AAAAAAAs 70s AAAAAAAs	084026	60s -----eA 70s AAAAAAAs	069019	40s -----e 50s AAAAAAAs
069019	40s -----e 50s AAAAAAAs	075019	60s AAAAAAAs 70s AAAAAAAs	084027	60s -----eA 70s AAAAAAAs	069020	40s -----e 50s AAAAAAAs
069020	40s -----e 50s AAAAAAAs	075020	60s AAAAAAAs 70s AAAAAAAs	084028	60s -----eA 70s AAAAAAAs	069021	40s -----e 50s AAAAAAAs
069021	40s -----e 50s AAAAAAAs	075021	60s AAAAAAAs 70s AAAAAAAs	084029	60s -----eA 70s AAAAAAAs	069022	40s -----e 50s AAAAAAAs
069022	40s -----e 50s AAAAAAAs	075022	60s AAAAAAAs 70s AAAAAAAs	084030	60s -----eA 70s AAAAAAAs	069023	40s -----e 50s AAAAAAAs
069023	40s -----e 50s AAAAAAAs	075023	60s AAAAAAAs 70s AAAAAAAs	084031	60s -----eA 70s AAAAAAAs	069024	40s -----e 50s AAAAAAAs
069024	40s -----e 50s AAAAAAAs	075024	60s AAAAAAAs 70s AAAAAAAs	084032	60s -----eA 70s AAAAAAAs	069025	40s -----e 50s AAAAAAAs
069025	40s -----e 50s AAAAAAAs	075025	60s AAAAAAAs 70s AAAAAAAs	084033	60s -----eA 70s AAAAAAAs	069026	40s -----e 50s AAAAAAAs
069026	40s -----e 50s AAAAAAAs	075026	60s AAAAAAAs 70s AAAAAAAs	084034	60s -----eA 70s AAAAAAAs	069027	40s -----e 50s AAAAAAAs
069027	40s -----e 50s AAAAAAAs	075027	60s AAAAAAAs 70s AAAAAAAs	084035	60s -----eA 70s AAAAAAAs	069028	40s -----e 50s AAAAAAAs
069028	40s -----e 50s AAAAAAAs	075028	60s AAAAAAAs 70s AAAAAAAs	084036	60s -----eA 70s AAAAAAAs	069029	40s -----e 50s AAAAAAAs
069029	40s -----e 50s AAAAAAAs	075029	60s AAAAAAAs 70s AAAAAAAs	084037	60s -----eA 70s AAAAAAAs	069030	40s -----e 50s AAAAAAAs
069030	40s -----e 50s AAAAAAAs	075030	60s AAAAAAAs 70s AAAAAAAs	084038	60s -----eA 70s AAAAAAAs	069031	40s -----e 50s AAAAAAAs
069031	40s -----e 50s AAAAAAAs	075031	60s AAAAAAAs 70s AAAAAAAs	084039	60s -----eA 70s AAAAAAAs	069032	40s -----e 50s AAAAAAAs
069032	40s -----e 50s AAAAAAAs	075032	60s AAAAAAAs 70s AAAAAAAs	084040	60s -----eA 70s AAAAAAAs	069033	40s -----e 50s AAAAAAAs
069033	40s -----e 50s AAAAAAAs	075033	60s AAAAAAAs 70s AAAAAAAs	084041	60s -----eA 70s AAAAAAAs	069034	40s -----e 50s AAAAAAAs
069034	40s -----e 50s AAAAAAAs	075034	60s AAAAAAAs 70s AAAAAAAs	084042	60s -----eA 70s AAAAAAAs	069035	40s -----e 50s AAAAAAAs
069035	40s -----e 50s AAAAAAAs	075035	60s AAAAAAAs 70s AAAAAAAs	084043	60s -----eA 70s AAAAAAAs	069036	40s -----e 50s AAAAAAAs
069036	40s -----e 50s AAAAAAAs	075036	60s AAAAAAAs 70s AAAAAAAs	084044	60s -----eA 70s AAAAAAAs	069037	40s -----e 50s AAAAAAAs
069037	40s -----e 50s AAAAAAAs	075037	60s AAAAAAAs 70s AAAAAAAs	084045	60s -----eA 70s AAAAAAAs	069038	40s -----e 50s AAAAAAAs
069038	40s -----e 50s AAAAAAAs	075038	60s AAAAAAAs 70s AAAAAAAs	084046	60s -----eA 70s AAAAAAAs	069039	40s -----e 50s AAAAAAAs
069039	40s -----e 50s AAAAAAAs	075039	60s AAAAAAAs 70s AAAAAAAs	084047	60s -----eA 70s AAAAAAAs	069040	40s -----e 50s AAAAAAAs
069040	40s -----e 50s AAAAAAAs	075040	60s AAAAAAAs 70s AAAAAAAs	084048	60s -----eA 70s AAAAAAAs	069041	40s -----e 50s AAAAAAAs
069041	40s -----e 50s AAAAAAAs	075041	60s AAAAAAAs 70s AAAAAAAs	084049	60s -----eA 70s AAAAAAAs	069042	40s -----e 50s AAAAAAAs
069042	40s -----e 50s AAAAAAAs	075042	60s AAAAAAAs 70s AAAAAAAs	084050	60s -----eA 70s AAAAAAAs	069043	40s -----e 50s AAAAAAAs
069043	40s -----e 50s AAAAAAAs	075043	60s AAAAAAAs 70s AAAAAAAs	084051	60s -----eA 70s AAAAAAAs	069044	40s -----e 50s AAAAAAAs
069044	40s -----e 50s AAAAAAAs	075044	60s AAAAAAAs 70s AAAAAAAs	084052	60s -----eA 70s AAAAAAAs	069045	40s -----e 50s AAAAAAAs
069045	40s -----e 50s AAAAAAAs	075045	60s AAAAAAAs 70s AAAAAAAs	084053	60s -----eA 70s AAAAAAAs	069046	40s -----e 50s AAAAAAAs
069046	40s -----e 50s AAAAAAAs	075046	60s AAAAAAAs 70s AAAAAAAs	084054	60s -----eA 70s AAAAAAAs	069047	40s -----e 50s AAAAAAAs
069047	40s -----e 50s AAAAAAAs	075047	60s AAAAAAAs 70s AAAAAAAs	084055	60s -----eA 70s AAAAAAAs	069048	40s -----e 50s AAAAAAAs
069048	40s -----e 50s AAAAAAAs	075048	60s AAAAAAAs 70s AAAAAAAs	084056	60s -----eA 70s AAAAAAAs	069049	40s -----e 50s AAAAAAAs
069049	40s -----e 50s AAAAAAAs	075049	60s AAAAAAAs 70s AAAAAAAs	084057	60s -----eA 70s AAAAAAAs	069050	40s -----e 50s AAAAAAAs
069050	40s -----e 50s AAAAAAAs	075050	60s AAAAAAAs 70s AAAAAAAs	084058	60s -----eA 70s AAAAAAAs	069051	40s -----e 50s AAAAAAAs
069051	40s -----e 50s AAAAAAAs	075051	60s AAAAAAAs 70s AAAAAAAs	084059	60s -----eA 70s AAAAAAAs	069052	40s -----e 50s AAAAAAAs
069052	40s -----e 50s AAAAAAAs	075052	60s AAAAAAAs 70s AAAAAAAs	084060	60s -----eA 70s AAAAAAAs	069053	40s -----e 50s AAAAAAAs
069053	40s -----e 50s AAAAAAAs	075053	60s AAAAAAAs 70s AAAAAAAs	084061	60s -----eA 70s AAAAAAAs	069054	40s -----e 50s AAAAAAAs
069054	40s -----e 50s AAAAAAAs	075054	60s AAAAAAAs 70s AAAAAAAs	084062	60s -----eA 70s AAAAAAAs	069055	40s -----e 50s AAAAAAAs
069055	40s -----e 50s AAAAAAAs	075055	60s AAAAAAAs 70s AAAAAAAs	084063	60s -----eA 70s AAAAAAAs	069056	40s -----e 50s AAAAAAAs
069056	40s -----e 50s AAAAAAAs	075056	60s AAAAAAAs 70s AAAAAAAs	084064	60s -----eA 70s AAAAAAAs	069057	40s -----e 50s AAAAAAAs
069057	40s -----e 50s AAAAAAAs	075057	60s AAAAAAAs 70s AAAAAAAs	084065	60s -----eA 70s AAAAAAAs	069058	40s -----e 50s AAAAAAAs
069058	40s -----e 50s AAAAAAAs	075058	60s AAAAAAAs 70s AAAAAAAs	084066	60s -----eA 70s AAAAAAAs	069059	40s -----e 50s AAAAAAAs
069059	40s -----e 50s AAAAAAAs	075059	60s AAAAAAAs 70s AAAAAAAs	084067	60s -----eA 70s AAAAAAAs	069060	40s -----e 50s AAAAAAAs
069060	40s -----e 50s AAAAAAAs	075060	60s AAAAAAAs 70s AAAAAAAs	084068	60s -----eA 70s AAAAAAAs	069061	40s -----e 50s AAAAAAAs
069061	40s -----e 50s AAAAAAAs	075061	60s AAAAAAAs 70s AAAAAAAs	084069	60s -----eA 70s AAAAAAAs	069062	40s -----e 50s AAAAAAAs
069062	40s -----e 50s AAAAAAAs	075062	60s AAAAAAAs 70s AAAAAAAs	084070	60s -----eA 70s AAAAAAAs	069063	40s -----e 50s AAAAAAAs
069063	40s -----e 50s AAAAAAAs	075063	60s AAAAAAAs 70s AAAAAAAs	084071	60s -----eA 70s AAAAAAAs	069064	40s -----e 50s AAAAAAAs
069064	40s -----e 50s AAAAAAAs	075064	60s AAAAAAAs 70s AAAAAAAs	084072	60s -----eA 70s AAAAAAAs	069065	40s -----e 50s AAAAAAAs
069065	40s -----e 50s AAAAAAAs	075065	60s AAAAAAAs 70s AAAAAAAs	084073	60s -----eA 70s AAAAAAAs	069066	40s -----e 50s AAAAAAAs
069066	40s -----e 50s AAAAAAAs	075066	60s AAAAAAAs 70s AAAAAAAs	084074	60s -----eA 70s AAAAAAAs	069067	40s -----e 50s AAAAAAAs
069067	40s -----e 50s AAAAAAAs	075067	60s AAAAAAAs 70s AAAAAAAs	084075	60s -----eA 70s AAAAAAAs	069068	40s -----e 50s AAAAAAAs
069068	40s -----e 50s AAAAAAAs	075068	60s AAAAAAAs 70s AAAAAAAs	084076	60s -----eA 70s AAAAAAAs	069069	40s -----e 50s AAAAAAAs
069069	40s -----e 50s AAAAAAAs	075069	60s AAAAAAAs 70s AAAAAAAs	084077	60s -----eA 70s AAAAAAAs	069070	40s -----e 50s AAAAAAAs
069070	40s -----e 50s AAAAAAAs	075070	60s AAAAAAAs 70s AAAAAAAs	084078	60s -----eA 70s AAAAAAAs	069071	40s -----e 50s AAAAAAAs
069071	40s -----e 50s AAAAAAAs	075071	60s AAAAAAAs 70s AAAAAAAs	084079	60s -----eA 70s AAAAAAAs	069072	40s -----e 50s AAAAAAAs
069072	40s -----e 50s AAAAAAAs	075072	60s AAAAAAAs 70s AAAAAAAs	084080	60s -----eA 70s AAAAAAAs	069073	40s -----e 50s AAAAAAAs
069073	40s -----e 50s AAAAAAAs	075073	60s AAAAAAAs 70s AAAAAAAs	084081	60s -----eA 70s AAAAAAAs	069074	40s -----e 50s AAAAAAAs
069074	40s -----e 50s AAAAAAAs	075074	60s AAAAAAAs 70s AAAAAAAs	084082	60s -----eA 70s AAAAAAAs	069075	40s -----e 50s AAAAAAAs
069075	40s -----e 50s AAAAAAAs	075075	60s AAAAAAAs 70s AAAAAAAs	084083	60s -----eA 70s AAAAAAAs	069076	40s -----e 50s AAAAAAAs
069076	40s -----e 50s AAAAAAAs	075076	60s AAAAAAAs 70s AAAAAAAs	084084	60s -----eA 70s AAAAAAAs	069077	40s -----e 50s AAAAAAAs
069077	40s -----e 50s AAAAAAAs	075077	60s AAAAAAAs 70s AAAAAAAs	084085	60s -----eA 70s AAAAAAAs	069078	40s -----e 50s AAAAAAAs
069078	40s -----e 50s AAAAAAAs	075078	60s AAAAAAAs 70s AAAAAAAs	084086	60s -----eA 70s AAAAAAAs	069079	40s -----e 50s AAAAAAAs
069079	40s -----e 50s AAAAAAAs	075079	60s AAAAAAAs 70s AAAAAAAs	084087	60s -----eA 70s AAAAAAAs	069080	40s -----e 50s AAAAAAAs
069080	40s -----e 50s AAAAAAAs	075080	60s AAAAAAAs 70s AAAAAAAs	084088	60s -----eA 70s AAAAAAAs	069081	40s -----e 50s AAAAAAAs
069081	40s -----e 50s AAAAAAAs	075081	60s AAAAAAAs 70s AAAAAAAs	084089	60s -----eA 70s AAAAAAAs	069082	40s -----e 50s AAAAAAAs
069082	40s -----e 50s AAAAAAAs	075082	60s AAAAAAAs 70s AAAAAAAs	084090	60s -----eA 70s AAAAAAAs	069083	40s -----e 50s AAAAAAAs
069083	40s -----e 50s AAAAAAAs	075083	60s AAAAAAAs 70s AAAAAAAs	084091	60s -----eA 70s AAAAAAAs	069084	40s -----e 50s AAAAAAAs
069084	40s -----e 50s AAAAAAAs	075084	60s AAAAAAAs 70s AAAAAAAs	084092	60s -----eA 70s AAAAAAAs	069085	40s -----e 50s AAAAAAAs
069085	40s -----e 50s AAAAAAAs	075085	60s AAAAAAAs 70s AAAAAAAs	084093	60s -----eA 70s AAAAAAAs	069086	40s -----e 50s AAAAAAAs
069086	40s -----e 50s AAAAAAAs	075086	60s AAAAAAAs 70s AAAAAAAs	084094	60s -----eA 70s AAAAAAAs	069087	40s -----e 50s AAAAAAAs
069087	40s -----e 50s AAAAAAAs	075087	60s AAAAAAAs 70s AAAAAAAs	084095	60s -----eA 70s AAAAAAAs	069088	40s -----e 50s AAAAAAAs
069088	40s -----e 50s AAAAAAAs	075088	60s AAAAAAAs 70s AAAAAAAs	084096	60s -----eA 70s AAAAAAAs	069089	40s -----e 50s AAAAAAAs
069089	40s -----e 50s AAAAAAAs	075089	60s AAAAAAAs 70s AAAAAAAs	084097	60s -----eA 70s AAAAAAAs	069090	40s -----e 50s AAAAAAAs
069090	40s -----e 50s AAAAAAAs	075090	60s AAAAAAAs 70s AAAAAAAs	084098	60s -----eA 70s AAAAAAAs	069091	40s -----e 50s AAAAAAAs
069091	40s -----e 50s AAAAAAAs	075091	60s AAAAAAAs 70s AAAAAAAs	084099	60s -----eA 70s AAAAAAAs	069092	40s -----e 50s AAAAAAAs
069092	40s -----e 50s AAAAAAAs	075092	60s AAAAAAAs 70s AAAAAAAs	084100	60s -----eA 70s AAAAAAAs	069093	40s -----e 50s AAAAAAAs
069093	40s -----e 50s AAAAAAAs	075093	60s AAAAAAAs 70s AAAAAAAs	084101	60s -----eA 70s AAAAAAAs	069094	40s -----e 50s AAAAAAAs
069094	40s -----e 50s AAAAAAAs	075094	60s AAAAAAAs 70s AAAAAAAs	084102	60s -----eA 70s AAAAAAAs	069095	40s -----e 50s AAAAAAAs
069095	40s -----e 50s AAAAAAAs	075095	60s AAAAAAAs 70s AAAAAAAs	084103	60s -----eA 70s AAAAAAAs	069096</	

Produced 29th August 1985. New summaries available on request.

Stn. number	Naturalised daily and monthly flows	Stn. number	Naturalised daily and monthly flows	Stn. number	Naturalised daily and monthly flows	Stn. number	Naturalised daily and monthly flows
006007	70s ----EEEFEEF	025002	70s FFFF	033005	50s --FEEEEEE	60s	EEEEEEBBA
		025004	50s -----FEE		70s AC		
007003	60s ----FEEEE		70s C	033006	50s --FEE	60s	EEEEF
	80s F	025008	60s ----CAAB	033007	50s --FFEFEE	60s	EFEEFEECCF
					70s EF		
008001	30s -----FF	026002	60s -----FFEFF	033011	60s --FEEF		
	50s EEEEFEEEE		70s FFFF	033026	70s --CAAAC		
008005	70s --F E	027001	30s -----FF-	033038	50s -----CA	60s	AAAAA </td
			50s -----FEEEF		70s AAAAA		
012002	70s --FF		70s E	036001	30s --CAAAAAA	40s	AAAAA </td
012004	70s ----EE	027002	50s --FEEEE		50s AAAAAA	60s	AAAAA </td
			70s E		70s AAAAA		
014001	70s ----F--E	027003	60s FEEFEE	036002	60s CAAAAA	70s	AAAA
014002	70s ---F E	027004	60s FEEEEEF		60s --CAAAAA	70s	AAAAAC
		027005	40s -----FEE	036004	60s CAAA	70s	AAAAAC
015003	70s -----E		60s EEEEEEE	036005	60s --CAAAAA	70s	AAAAAC
015006	60s -----FEE	027006	60s -----FEE	036006	60s --CAAAAA	70s	AAAAAC
	80s F	027007	50s -----FF	036007	60s -----CAAA	70s	AAAAAC
015007	70s -----F		70s EF	036008	60s CAAAAA	70s	AAAAAC
015008	80s F	027009	60s -----F	036009	60s --CC	70s	AAAAAC
015010	70s -----EEEF	027011	50s FEEEEE	036010	60s -----CA	70s	AAAAAC
015011	70s -----EEEF		70s FFEF	036011	60s -----CA	70s	AAAAAC
015012	70s -----E-EE	027012	50s -----FEE	036012	60s -----CA	70s	AAAAAC
015013	70s EEEEEE		70s EF	038015	70s --CAAC		
015016	70s -----EEEEE	027013	50s -----FEE				
015017	70s -----F		70s EF				
		027016	60s -----CAAC	037001	50s CAAAAA	60s	AAAAAAC-
016001	60s -----FEEEEE	027018	50s -----FEE		70s -CAAC		
	80s F		70s EF	037002	30s CAAAAA	40s	ACCAAAAA
016004	70s -----EEEEE	027017	50s --FFFF		50s AAAAAA	60s	AAAAA
			70s EF		70s AAAAA		
017001	60s ----F	027018	50s -----FEE	037003	30s CAAAAA	40s	AAAAA
017002	60s -----F		70s EEF		50s AAAAAA	60s	AC CAAAA
017003	70s -----E	027019	50s -----FEE		70s AAAAA		
017004	70s F		70s --FF	037004	30s --CAAAAA	40s	AAAAACFF--
017005	70s -----E	027020	50s FFEF		50s --F--FBFFB	60s	EFEBAAAA
			70s FEEF	037005	50s C		
018001	70s -----E	027021	60s FFEFFFFF		70s AAAAA		
018002	60s -----FEE	027022	60s -----FEE	037006	60s --CAAAAA	70s	AAAAAC
018003	60s -----FEEEF	027023	60s -----FEE	037007	60s --CAAAA	70s	AAAAAC
018005	70s -----E	027024	60s FFEF	037008	60s --CAAAA	70s	AAAAAC
018008	70s -----E	027026	60s -----FEE	037009	60s --CAAAAA	70s	AAAAAC
		027028	60s -----FEE	037010	60s --CAAAAA	70s	AAACC
019001	50s -----EE	027027	60s FFEFFFFF	037011	60s CAAAAA	70s	AAAAAC
	70s EEEEEE	027028	60s -----FEE	037012	60s --CAAAAA	70s	AAAAAC
019002	60s -----FEEFF	027029	60s FEEFEFF	037013	60s CAAAAA	70s	AAAAAC
019003	60s FFEFEFE	027030	60s -----FEE	037014	60s CAAAAA	70s	AAAAAC
019005	60s FFEFEFE	027031	60s -----FEE	037016	60s --CAAAA	70s	AAACAC
019006	60s -----FEE	027032	60s -----FEE	037017	60s -----C	70s	AAACAC
019007	60s -----FEE	027039	60s --FF	037018	70s CAAC		
019008	60s -----FEE			037019	60s -----CAAC	70s	AAAC
019009	60s -----FEE	028001	30s -----FEE	037020	70s CAAAA		
019010	60s -----FEE		50s EEEEEE	037021	70s CAAAA		
019011	70s --F	028002	40s -----FEE	037022	70s CAAAA		
			60s EEEERAAAC	037023	70s -CAAC		
				037024	70s -CAAAC		
020001	60s -----EE	030003	60s -----FF	038001	30s --DAAAAAA	40s	AAAAA
020002	60s -----EE				50s AAAAAA	60s	AAAAA
020003	60s -----EE				70s AAAAAAC-CA	80s	AAAD
020004	70s -----EE	031001	40s FFEFF--				
020005	60s -----E		80s FFECEBAACA		50s --FEEFFF		
020006	70s --E		80s CF		70s ABFEFFFFE		
020007	70s -----E						
		031002	70s --FEF	039001	80s -----A	90s	AAAAA
021001	50s -----F	031004	60s -----FF	(from 1883)	00s AAAAAA	10s	AAAAA
021002	50s -----F		70s FEEEF		20s AAAAAA	30s	AAAAA
021003	50s -----F	031007	60s -----FF		40s AAAAAA	50s	AAAAA
	70s EEEFEFE	031009	70s --FFF		60s AAAAAA	70s	AAAAA
021004	60s -----FEF	031010	70s FEEF		80s AAA4B		
021005	60s -----FEF	031011	70s --FFF	039002	30s -----CA	40s	AAAAA
	70s EEEFEFE	031012	70s --FFF		50s AAAAAA	60s	AAAAA
021006	60s FFEFEFE	031013	70s --FFF		70s AAAAAA	80s	AAAD
	80s EF	031016	70s FFFF	039008	50s --CAAAAAA	60s	AAAAA
021006	60s FFEFEFE	031016	70s FFFF		70s AAAAAA	80s	AAAD
	80s F	031017	70s FEEF	039015	60s -----FBC		
021009	60s --FEEFEFE	031018	70s --FFF				
	80s F	031019	70s --FFF	040001	50s -----FEFF	60s	FEFEFEF
021010	60s --FEEFEFE	031020	70s FFFF	040002	50s -----FFEF	60s	FFFEFEF
	80s E	031021	70s FFFF	040003	50s -----FEE	60s	EEFEFEF
021014	60s FEEFEFE	031022	70s --FFF	040004	60s --FEFEF		
	80s F			040006	60s -----FEE		
021018	60s -----FE			040006	60s -----FEF		
	80s F	032001	40s FEEFEFE	040007	60s FFEFEFF		
021019	60s --FF		50s EEEFEFE	040008	60s -----FEE		
	80s F	032002	30s -----FF	040009	60s -----FEE		
021021	60s -----F		50s EEEEF	040010	60s -----FFF		
	80s F		70s EEEEF	040011	60s --FEF		
021022	60s --F	032003	70s FEEF				
	80s F	032004	40s --FEEFE	043003	60s -----FEF		
021026	70s --FEEFEFE		50s EEEFEFE	043005	60s -----FEF	70s	EF
		032006	60s -----F				
023001	50s -----FEE	032007	60s -----F	045003	60s --FEFEF		
	70s CC	032008	40s -----FEE	045004	60s -----CA	70s	C
023002	60s --CAAAA		60s EEEFEFE	045005	60s --FEFEF	70s	C
023003	50s -----F	032012	70s FFFFF				
	70s AAAC	032018	70s --FFF	046002	60s FEEFEFE		
023007	60s -----CAAAA	032019	70s --FFF	046003	60s -----CA	70s	C
023008	70s --CC	032020	70s FEEFF				
023015	40s --FFFFFFF	032023	70s FFFF	047004	60s FBCEFF		
		032025	70s FFFF	047005	60s -----C		
		032026	70s FFFF				
024001	60s -----CA	033001	50s FEEFEF	048001	60s --FBACCC		
024003	50s -----FE	033002	60s FEFBAAA	048002	80s -----FF--C		
	70s AC CC	033003	50s FF-FEEF	048006	60s -----CC		
		033004	40s -----FFEE	048007	60s -----CC		
025001	50s -----FEE						
	70s AC--CAAC						

Stn. number	Naturalised daily and monthly flows			Stn. number	Naturalised daily and monthly flows			Stn. number	Naturalised daily and monthly flows		
049003	50s	-----CCC		057001	50s	-----FEE	60s	076001	50s	-----FEEF--	60s
050001	50s	-----A	70s C	057002	30s	-----FEE	40s	076002	70s	F	60s
050002	50s	-----FEEBBA	70s C		50s	-----FEEF-	60s	076003	60s	FEEEF	
					70s	C		076004	60s	-----FEEF	
051002	70s	-----FEEF		057003	50s	-----CAAAC					
052002	50s	-----FEE	60s	057004	50s	-----FEE	60s	077002	60s	-----FEE	70s EF
052005	60s	FEEBEEFE	70s	058001	60s	-----FEEF--C	70s C	078004	70s	-F	
052006	60s	-----FEEEEE	70s	058003	60s	-----FEEF		079002	50s	-----F	60s
052008	60s	FEEBEEFE						079003	70s	EF	
052014	60s	-----FEE	70s	059001	50s	-----FE	60s	079006	50s	-----F	60s
									70s	EEF	
053004	50s	-----FE	60s	060001	50s	-----FE	60s	079006	60s	-----FEE	70s EF
	70s	FEEEEEAAA	80s A	061002	60s	FEEEBCC		081003	60s	-----FE	70s FF
054001	20s	-CAAAAAAAAA	30s	062001	50s	-----F	60s	082001	60s	-- FEEEEE	70s EF
	40s	AAAAAAAAA	50s								
	60s	AAAAAAAAA	70s	064001	60s	-----FF		084001	70s	FEEF	
054003	20s	EEEEEEFE	30s					084002	60s	-----FE	70s
	40s	AAAAAAAAA	50s	066002	60s	-FEEEEE-	70s FFE	084003	60s	-----FEE	70s
	60s	AAAAAAAAA	70s	068003	60s	-----FEF FE		084004	50s	-----FEE	60s
	80s	AAAA		068011	60s	-----CA	70s AC		70s	FEEF	
054005	50s	-----FEE	60s	067001	50s	-----FEE	60s	084005	50s	-----FE	60s
	70s	-----AA			70s	FEE			70s	EEFEF	
054010	60s	-----CC		067002	50s	-----FEE	60s	084006	70s	FEEF	
054013	60s	-----CACA	70s C-----AA	067003	60s	-----FE	70s	084007	60s	-----FEE	70s
054014	60s	-----CAA	70s C-----AA	067004	50s	-----FEF		084008	60s	-----FEE	70s
054017	60s	-----CC		067006	60s	FEEEEEFEF		084009	60s	-----FFF	70s
				067007	60s	-----FEE		084011	60s	-----FEE	70s
055001	30s	-----FEE	40s	067015	70s	FEE		084012	60s	FEEEEE	70s
	50s	EEEEEEEEE	60s	067017	60s	-----E	70s EE	084013	60s	-----FEE	70s
	70s	EF						084014	60s	-----FEE	70s
055002	30s	-----FEE	40s	068001	60s	-FEEFEFF	70s -- E	084015	70s	FEEF	
	50s	EEEEFEFE	60s	068003	40s	-----F	50s	084016	70s	FEEF	
	70s	AAAAAAAAA	80s AAD		60s	EEEEF----	70s ---FE	084017	60s	-----FEE	70s
055008	30s	-----FEE	40s	068004	60s	-FEEFEFF	70s -- FE	084018	60s	-----FEE	70s
	50s	EEEEFEFE	60s	068005	60s	-FEEFEFF	70s ---FE	084019	60s	-----FEE	70s
	70s	EEEEFEFE		068006	60s	-FEEFEFF	70s ----E	084020	70s	FEEF	
055007	30s	-----FE	40s					084021	70s	FEF	
	50s	EEEEFEFE	60s	069004	40s	-----FEE	50s	084022	70s	---FF	
	70s	AAAAAAAAA	80s ADA		60s	EEEEFEFE		084023	70s	---FF	
055023	60s	-----F	70s					084024	70s	---FF	
	80s	AAA		070001	50s	-FEEFEF--	60s	084027	70s	---FF	
					70s	CC					
058001	50s	-----FEE	60s					085001	60s	- FEEEEE	70s
	70s	FEEFEFF						085002	60s	-----FEE	70s
056002	50s	-----FEE	60s	071001	60s	-----CC		085003	70s	FEEF	
	70s	EEEEF		071002	60s	-----FBAAA	70s				
056003	60s	-----FEF						086001	70s	FEEF	
056004	60s	-----FEE	70s	072001	60s	-FEEBAAA	70s	086002	70s	FEEF	
056008	60s	-----FEE	70s								
056011	70s	FEEFEFF		075001	60s	-----FEF		097002	70s	--EFEF	
056012	70s	-EEFEF		075002	60s	-FEEFEF					

Produced 29th August 1985 New summaries available on request

GROUNDWATER LEVEL MEASUREMENT

THE OBSERVATION BOREHOLE NETWORK

Groundwater level observation wells* are generally used for one of two purposes, either to monitor levels regionally and thus to estimate groundwater resource fluctuations, or to monitor the effects locally of groundwater abstraction. The number of observation wells required in different areas varies widely. Over the last two decades, a target density was sought of one well to 25 to 35 km². During the last few years, it has become apparent in some districts that satisfactory information can be obtained with fewer wells, while in others the densities had to be substantially increased.

The observation well network was reviewed in 1981 by the Institute of Geological Sciences (now the British Geological Survey) with the aim of selecting 200 to 300 sites from the existing Water Data Unit archive, to be used for periodical assessments of the national groundwater situation. The selection was based upon hydrogeological units identified in an investigation of the groundwater resources of the United Kingdom (Monkhouse and Richards 1982); one site was chosen for each aquifer present within each unit. For Scotland and for Northern Ireland, this was not possible due to the very limited number of observation wells available. In England and Wales, the total number finally selected was 175 (Monkhouse and Murti 1981). Since that date, a number of changes have been made, and the register shown in this report lists 173 observation wells of which 50 per cent are in the Chalk and Upper Greensand aquifer and 21 per cent in the Permo-Triassic sandstones.

The Water Data Unit was officially disbanded in 1982 and the archive was taken over by the British Geological Survey. The archive comprised a series of paper files containing original data and a series of computer files; the latter have been transferred to an NERC computer. The present situation is that the computer archive holding data from the 173 selected wells is being updated and validated, this process being approximately 40 per cent completed (data for the selected wells are virtually complete to 1983 on the paper files). The remaining sites inherited from the Water Data Unit are held on a separate computer archive; the validation of this, the "historic archive", will be undertaken in the future, but the information is complete only to about 1977.

References

- Monkhouse, R.A., and Murti, P.K. (1981). The rationalisation of groundwater observation well networks in England and Wales. *Inst. Geol. Sciences, Report No. WD/81/1*, 18 pp.
- Monkhouse, R.A., and Richards, H.J. (1982). *Groundwater Resources of the United Kingdom*. Commission of the European Communities, pub. Th. Schaeffer Druckerei GmbH, Hannover, 252 pp.

REGISTER OF SELECTED GROUNDWATER OBSERVATION WELLS

Scope

The listed sites were selected so as to give a reasonably representative cover for aquifers throughout England and Wales. The wells are grouped according to the aquifers to which the water level variations in the wells are attributed. A generalised list of aquifers is given in Table 3. While the aquifers are tabulated in stratigraphical order, most of the local names for individual strata are omitted and the intervening aquicludes are not shown.

Well Number

The well numbering system is based on the National Grid. Each 100 km square is designated by prefix characters, e.g. SE, and is divided into 100 squares of 10 km sides designated by numbers 00 to 99. Thus, the first site given in the register, SE93/4, is located in the 10 km square SE93, while the number after the solidus denotes that the site is the fourth accessed in this square. A suffix such as A, B, etc., defines the particular well when there are several at the same site.

Two asterisks following the Well Number indicates an index well for which hydrographs are shown on pages 153 to 158. The location of the index wells and the outcrop areas of the principal aquifers are shown in Figure 9.

Grid Reference

The six or eight figure references given in the register relate to the 100 km National Grid square designated by the prefix characters in the Well Number. The distribution of the 100 km squares of the National Grid is shown on Figure 10.

Site

The name by which the well or borehole is normally referenced.

The locations of all the sites listed in the register are shown on Figure 10.

*In this context, a well includes both shafts (constructed by hand-digging) and boreholes (constructed by machinery)

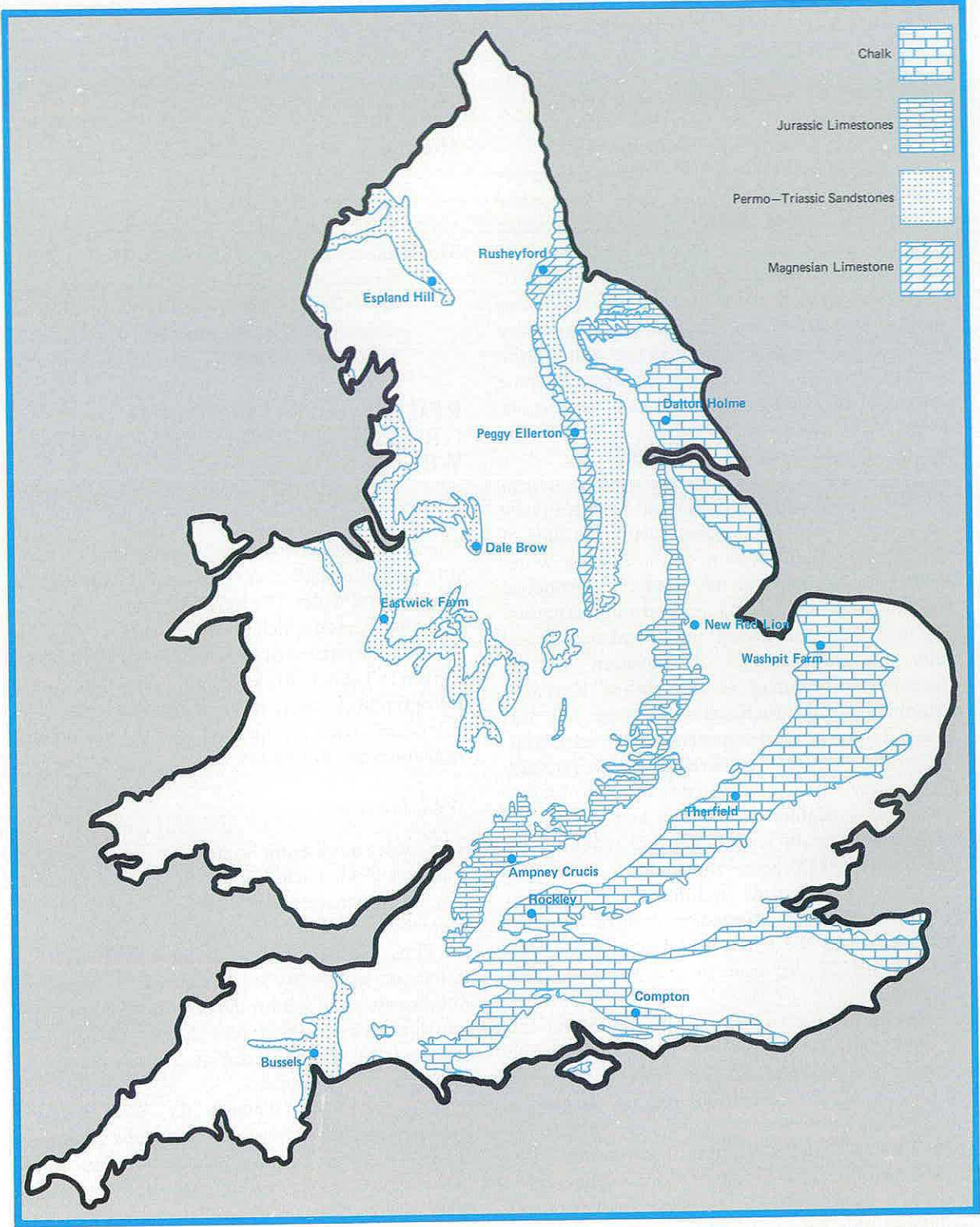


Figure 9. Principal aquifers and index borehole locations.

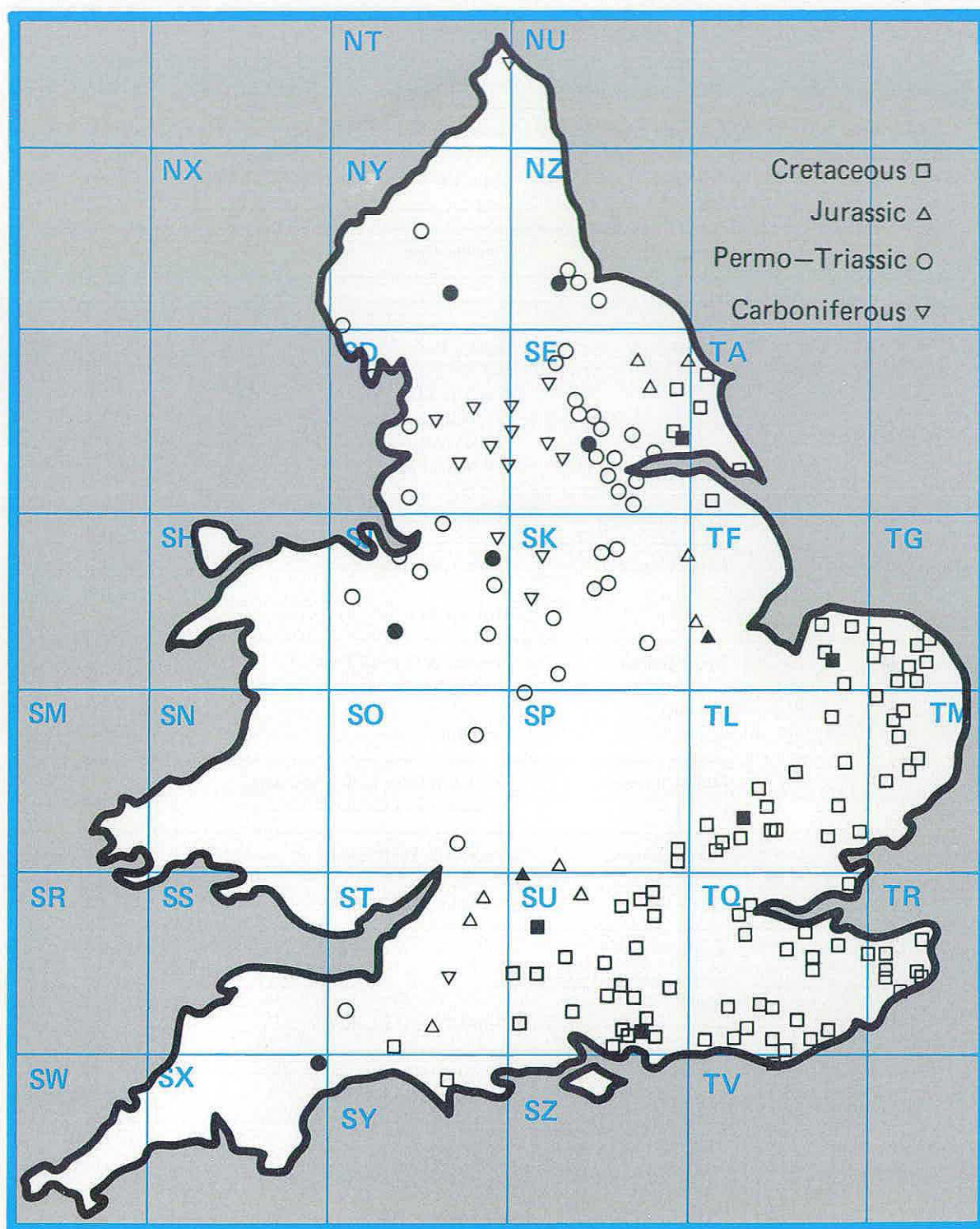


Figure 10. The representative borehole network in England and Wales.

TABLE 3. GENERALISED LIST OF AQUIFERS IN THE UNITED KINGDOM

Era	System	Subsystem	Aquifer	Importance
CAINOZOIC	Quaternary	Holocene	Superficial deposits	*
		Pleistocene	Upper and Middle Pleistocene Crag	* **
	Tertiary	Pliocene	Coralline Crag	**
		Oligocene		
		Eocene	Bagshot Beds	
			Lower London Tertiaries Blackheath & Oldhaven Beds Woolwich & Reading Beds Thanet Beds	**
	Cretaceous	Upper Cretaceous	Chalk and Upper Greensand	****
		Lower Cretaceous	Lower Greensand	***
			Hastings Beds	**
	MESOZOIC	Jurassic	Portland & Purbeck Beds (Spilsby Sandstone)	* (**)
			Corallian	**
		Middle Jurassic	Great & Inferior Oolitic limestones (Lincolnshire Limestone)	** (****)
		Lower Jurassic	Bridport & Yeovil Sands	**
			Marlstone Rock	
UPPER PALAEOZOIC	Triassic	Keuper		
		Bunter		
	Permian	sandstones	Permo-Triassic sandstones	
			Magnesian Limestone	***
	Carboniferous	Upper Carboniferous	Coal Measures	**
			Millstone Grit	**
		Lower Carboniferous	Carboniferous Limestone	**
	Devonian		Old Red Sandstone	*

Key to aquifer importance:

- * aquifer of minor importance only
- ** aquifer producing small, but useful, local supplies
- *** aquifer of local importance, often providing public supplies
- **** aquifer of major importance

Water Authority

An abbreviation referencing the water authority responsible for the groundwater level measurement. A full list of water authority codes together with the corresponding names and addresses appear on pages 164 and 165.

Records Commence

The first year for which records are held on the groundwater archive.

The Register

Well Number	Grid Reference	Site	Water Authority	Records Commence
Aquifer : Chalk and Upper Greensand				
SE93/4	9212 3634	Dale Plantation	YWA	1970
SE94/5**	9651 4530	Dalton Holme	YWA	1889
SE97/31	9345 7079	Green Lane	YWA	1972
SP90/26	9470 0875	Champneys	TWA	1962
SP91/59	9380 1570	Pitstone Green Farm	AWA	1970
ST30/7	3763 0667	Lime Kiln Way	SWWA	1969
SU01/5 B	0160 1946	Woodyates	WWA	1942
SU04/2	0310 4883	Tilshead	WWA	1966
SU14/1	1690 4840	Netheravon	WWA	1968
SU15/57**	1655 7174	Rockley	TWA	1933
SU32/3	3816 2745	Bailey's Down Farm	SWA	1963
SU35/14	3318 5647	Woodside	SWA	1963
SU51/10	5877 1654	Hill Place Farm	SWA	1965
SU53/94	5589 3497	Abbotstone	SWA	1976
SU57/159	5628 7530	Calversleys Farm	TWA	1973
SU61/28 B	6474 1772	West End House	SWA	1953
SU61/46	6892 1524	Hinton Manor	SWA	1953
SU64/28	6360 4048	Lower Wield Farm	SWA	1961
SU68/49	6442 8525	Well Place Farm	TWA	1976
SU71/23**	7755 1490	Compton House	SWA	1893
SU73/8	7048 3491	Faringdon Station	TWA	1961
SU76/46	7367 6251	Riseley Mill	TWA	1975
SU78/45 A	7419 8924	Stonor Park	TWA	1961
SU81/1	8356 1440	Chilgrove House	SWA	1836
SU87/1	8336 7885	Farm Cottage, Coldharbour	TWA	1950
SU89/7	8103 9417	Piddington	TWA	1966
SY68/34	662 881	Ashton Farm	WWA	1977
TA06/16	0490 6120	Nafferton	YWA	1964
TA07/28	0940 7740	Hunmanby Hall	YWA	1976
TA10/40	1375 0885	Little Brocklesby	AWA	1926
TA21/14	2670 1890	Church Farm	YWA	1971
TF72/11	7710 2330	Off Farm	AWA	1971
TF74/1 A	7541 4087	Choseley Farm	AWA	1950
TF80/33	8738 0526	Houghton Common	AWA	1971
TF81/2 A**	8138 1960	Washpit Farm	AWA	1950
TF94/1	9160 4135	Cuckoo Lodge	AWA	1952
TGOO/92	0440 0020	High Elm Farm, Deopham	AWA	1971
TG02/3	0317 2476	Main Street, Foulsham	AWA	1952
TGO3/25 B	0382 3583	The Hall, Brinton	AWA	1952
TG11/5	1691 1101	The Spinney, Costessey	AWA	1952
TG12/7	1126 2722	Heydon Pumping Station	AWA	1974
TG21/9	2400 1657	Frettenham Depot	AWA	1952
TG21/10	2699 1140	Grange Farm	AWA	1952
TG23/21	2932 3101	Melbourne House	AWA	1974
TG32/67	3390 2020	School Road	AWA	1975

TG33/14	3428 3348	Eden Hall	AWA	1961
TL11/4	1560 1555	Mackerye End House	TWA	1960
TL11/9	1692 1965	The Holt	TWA	1964
TL13/24	1200 3026	West Hitchin	AWA	1970
TL22/10	2978 2433	Box Hall	TWA	1964
TL33/4**	3330 3720	Therfield Rectory	TWA	1883
TL42/6	4536 2676	Hixham Hall	TWA	1964
TL42/8	4669 2955	Berden Hall	TWA	1964
TL44/12	4522 4182	Redlands Hall	AWA	1964
TL66/2	6191 6013	Hall Farm	AWA	1964
TL72/54	7982 2516	Rectory Road	AWA	1968
TL84/6	8465 4106	Smeetham Hall Cottages, Bulmer	AWA	1963
TL86/110	8850 6470	Cattishall Farm	AWA	1969
TL89/37	8131 9001	Grimes Graves	AWA	1971
TL92/1	9657 2562	Lexden Pumping Station	AWA	1961
TM17/1	1671 7903	Old Parsonage House	AWA	1952
TM15/112	1201 5618	Dial Farm	AWA	1968
TM18/2	1983 8600	Pulham Market	AWA	1952
TM19/2	1810 9270	Hill Farm	AWA	1952
TM26/46	2461 6109	Fairfields	AWA	1974
TM26/95	2786 6397	Strawberry Hill	AWA	1974
TQ01/133	0850 1170	Chantry Post, Sullington	SWA	1977
TQ21/11	2850 1289	Old Rectory, Pyecombe	SWA	1958
TQ28/119 B	2996 8051	Trafalgar Square	TWA	1845
TQ31/50	3220 1180	North Bottom	SWA	1979
TQ35/5	3363 5924	Rose & Crown	TWA	1876
TQ38/9 A	3509 8536	Hackney Public Baths	TWA	1953
TQ50/7	5592 0380	Old Rectory, Folkington	SWA	1965
TQ56/19	5648 6124	West Kingsdown	TWA	1961
TQ57/118	5880 7943	Thurrock A13	AWA	1979
TQ58/2 B	5622 8408	Bush Pit Farm	TWA	1967
TQ66/48	6649 6873	Owlets	SWA	1968
TQ86/55	8528 6185	Stockbury Valley	SWA	1963
TQ99/11	947 971	Burnham	AWA	1975
TRO5/6	0239 5995	Step Cottage	SWA	1970
TR14/42	1065 4395	Kingsmill Down	SWA	1971
TR15/58	1281 5148	Cotterell Court	SWA	1970
TR24/13	2880 4937	Eythorne Green	SWA	1953
TR34/81	3173 4725	Church Farm	SWA	1971
TR36/62	3208 6634	Alland Grange	SWA	1969
TV59/7 C	5290 9920	Westdean 3	SWA	1904

Aquifer : Lower Greensand

SU72/47	7697 2414	Westmark Farm	SWA	1970
SU84/8 A	8716 4087	Tilford Pumping Station	TWA	1971
TL45/19	4110 5204	River Farm	AWA	1973
TQ41/79	4714 1271	Southover	SWA	1970
TQ75/72	7038 5218	Marshall Cottages	SWA	1969
TQ75/86	7135 5652	Kiln Barn Farm	SWA	1973
TR13/21	1132 3881	Ashley House	SWA	1972
TR23/32	2075 3650	Morehall Depot	SWA	1972

Aquifer : Hastings Beds

TQ22/1	2348 2770	The Bungalow	SWA	1964
TQ42/10	4684 2794	Greystones	SWA	1966
TQ43/16	4245 3145	Garde Wych Cross	SWA	1973
TQ61/47	6894 1389	Old Kennels	SWA	1966
TQ62/89	6282 2348	Rose Lodge	SWA	1973
TQ71/123	7969 1659	Red House	SWA	1974

Aquifer : Upper Jurassic

SE68/16	6890 8590	Kirkbymoorside	YWA	1973
SE77/76	7690 7300	Broughton	YWA	1975
SE98/8	9910 8540	Seavegate Farm	YWA	1971
SU49/40 B	4117 9307	East Hanney	TWA	1978

Aquifer : Middle Jurassic (excluding the Lincolnshire Limestone)

SPOO/62**	0595 0190	Ampney Crucis	TWA	1958
SP20/113	2721 0634	Alvescot Road	TWA	1975
ST51/57	591 169	Over Compton	WWA	1971
ST77/8	7834 7682	Tormartin 1	WWA	1973
ST89/32	8642 9030	Westonbirt School	WWA	1932

Aquifer : Lincolnshire Limestone

SK97/25	9800 7817	Grange de Lings	AWA	1975
TFO3/37**	0885 3034	New Red Lion	AWA	1964
TFO4/14	0429 4273	Silk Willoughby	AWA	1972

Aquifer : Permo-Triassic sandstones

NY00/328	0511 0247	Browbank Layby	NWWA	1974
NY45/16	4947 5667	Corby Hill	NWWA	1977
NY62/4**	6883 2301	Espland Hill	NWWA	1976
NZ41/34	4861 1835	Northern Dairies	NWA	1974
SD27/8	2172 7171	Furness Abbey	NWWA	1972
SD41/32	4400 1164	Yew Tree Farm	NWWA	1971
SD44/15	4396 4928	Moss Edge Farm	NWWA	1961
SE36/9	3590 6480	Newfield Farm	YWA	1968
SE39/20 B	3004 9244	Scruton Village	YWA	1969
SE44/4 B	4880 4850	Healaugh Pumping Station	YWA	1968
SE45/3	4470 5580	Cattal Maltings	YWA	1969
SE52/4	5473 2363	Southfield Lane	YWA	1955
SE55/4	5829 5383	Clifton Hospital	YWA	1967
SE60/24	6784 0709	Woodhouse Grange	STWA	1980
SE64/1	6751 4463	Wheldrake Station	YWA	1971
SE72/3 B	7047 2149	Rawcliffe Bridge	YWA	1971
SE83/9	8040 3640	Holme-on-Spalding Moor	YWA	1972
SJ15/15	1374 5556	Oaklands Bridge	WELSH	1972
SJ33/39**	3814 3831	Eastwick Farm	WELSH	1974
SJ37/2 H	3805 7676	Bowater 6	NWWA	1971
SJ56/45 E	5042 6953	Ashton 4	NWWA	1969
SJ69/138	6311 9620	Kenyon Lane	NWWA	1968
SJ83/1 A	8969 3474	Stone	STWA	1974
SJ87/32**	8969 7598	Dale Brow	NWWA	1973
SJ96/41	9310 6301	Rushton Spencer 1	NWWA	1969
SK00/41	067 012	Nuttall's Farm	STWA	1974
SK21/111	2731 1419	Grange Wood	STWA	1967
SK24/22	2539 4431	Burtonshuts Farm	STWA	1972
SK56/53	5632 6440	Peafield Lane	STWA	1969
SK68/21	6100 8374	Crossley Hill Wood	STWA	1970
SK73/50	7693 3228	Woodland Farm	STWA	1980
SO71/18	7170 1970	Stores Cottage	STWA	1973
SO87/28	8160 7970	Hillfields	STWA	1961
ST12/48	108 267	Milverton Bypass	WWA	1972
SX99/37 B**	9528 9872	Bussels 7A	SWWA	1972
SY09/21 A	0666 9235	Heathlands	SWWA	1951

Aquifer : Magnesian Limestone

NZ22/22**	2875 2896	Rusheyford NE	NWA	1967
NZ32/1 B	3780 2983	Butterwick	NWA	1967

NZ33/20	3349 3501	Garmondsway	NWA	1974
SE28/28	2460 8520	Bedale	YWA	1972
SE35/4	3830 5830	Castle Farm	YWA	1970
SE43/9**	4535 3964	Peggy Ellerton Farm	YWA	1968
SE43/14	4660 3550	Coldhill Farm 35	YWA	1971
SE51/2	5210 1530	Westfield Farm	YWA	1971
SK46/71	4800 6030	Stanton Hill	STWA	1973
SK58/43	5248 8018	Southheads Lane	STWA	1973

Aquifer : Coal Measures

SD62/35	6925 2945	Lion Brewery	NWWA	1974
SE23/4	2850 3414	Silver Blades Ice Rink	YWA	1971
SJ98/6	9394 8950	Chadkirk Marple	NWWA	1982

Aquifer : Millstone Grit

SD55/5	5820 5350	Abbeystead	NWWA	1972
SD75/6	7826 5962	Hersley Farm	NWWA	1973
SD83/111	8803 3949	Red Scar Mill	NWWA	1974
SD92/8	9833 2660	Horsehold Farm	YWA	1971
SEO4/7	0295 4792	Lower Heights Farm	YWA	1971
SE24/2 B	2067 4053	Green Lane Dyeworks	YWA	1971
SE27/8	2120 7380	Kirkby Moor Farm	YWA	1971

Aquifer : Carboniferous Limestone

NT95/21	9695 5055	Middle Ord	NWA	1974
SEO6/1	0241 6183	Jerry Laithe Farm	YWA	1971
SK15/16	1292 5547	Alstonfield	STWA	1974
SK17/13	1778 7762	Hucklow South	STWA	1969
ST64/36	6610 4460	Waterlip Quarry	WWA	1975

THE GROUNDWATER SITUATION IN THE UNITED KINGDOM UP TO THE END OF 1982

Background

Groundwater may be obtained from almost any stratum in the sedimentary succession in the British Isles, as well as from metamorphic and igneous rocks. In many rocks, such as clays and shales, volcanics and metamorphics, the permeable zone from which water may be abstracted can well be limited to the depth to which weathering may reach which is unlikely to be more than some 50 metres beneath the ground surface. In those strata which are not generally recognised to be aquifers, well-yields tend to be small (of the order of only a few cubic metres per day), uncertain as a continuous source (tending to fail in prolonged droughts), with an indifferent groundwater quality, and with the sources vulnerable to pollution.

Of the more generally recognised aquifers listed in Table 3, the Chalk and Upper Greensand, the Lincolnshire Limestone and the Permo-Triassic sandstones are the most important for public supply. From such aquifers as these, yields of 3000 to 4500 cubic metres a day are not unusual. For the next category, including the Lower Greensand and the Magnesian Limestone, yields to individual wells of 1500 to 3000 cubic metres a day can generally be expected. In the other aquifers, while occasional sources sufficient for large supplies may be developed, they tend to be important only locally.

The groundwater resources of an aquifer are naturally replenished from rainfall. During the summer months, when the potential evapotranspiration is high and soil moisture deficits are appreciable, little infiltration takes place. There is a notable exception to this rule in the Eden valley of Cumbria where, enclosed between the massifs of Cross Fell and the Lake District, sufficiently heavy and continuous summer rainfall occurs to maintain infiltration through part at least of most summers. The normal recharge of an aquifer takes place during the winter months when the potential evapotranspiration is low and soil moisture deficits are negligible.

There are few artificial reservoirs in the United Kingdom which are sufficiently large to support demands through the driest summers, assuming that they were full at the start of the summer, without some continuous contribution from river intakes. Prolonged dry spells lead to reduced flow in many rivers, particularly where the natural groundwater contribution (baseflow) is limited. Consequently, while surface water droughts may in part be due to the failure of runoff from winter rainfall to fill the reservoirs, they are more fre-

quently caused by a decrease in the summer flows of streams and rivers. Surface water droughts do, however, lead to increased consumption of groundwater (where available).

Groundwater droughts manifest themselves by falling water levels in the aquifers, resulting from a lack of winter rainfall and hence reduced infiltration. The exceptional drought of 1976 became severe only after the remarkably dry winter of 1975-76 when, in England and Wales, negligible recharge to aquifers occurred. By the spring of 1976, when seasonal underground storage should have been at its peak, aquifer storage was already at a very low level. Since, however, groundwater levels in aquifers are controlled by local and variable base level drainage conditions, the extent to which further falls in level could occur under natural unconfined conditions was limited so that by the autumn of 1976 levels were lower than those previously recorded by no more than a few metres. Under confined conditions, falls in excess of 10 metres occurred below the previously recorded minima. Nevertheless, the volume of groundwater in storage, particularly in the larger aquifers, is very great compared with the mean annual replenishment, and is, therefore, capable of cushioning the effects of even the most severe droughts. In the late summer of 1976, although many shallow shafts and boreholes dried out as the water levels fell, the yields from the deeper wells was easily maintained.

The Groundwater Situation 1979-82

The volume of groundwater stored in aquifers reflects not only the infiltration taking place during the previous winter months but also that occurring in previous years. It is therefore unsafe to consider any single year in isolation. In this present publication the 1982 groundwater situation is illustrated in the context of groundwater level variations over the period 1979-82.

The winter rainfall of 1981-82 (Table 4) was generally well above the mean in Scotland and in the north-west and south-west of England and in Wales. Elsewhere, the winter rainfall was near to the mean except for the Anglian and Southern water authority areas where it was of the order of 90 per cent of the mean. Summer rainfall, in common with previous years, was generally rather below the mean through the country, with the lowest values being about 81 per cent in Northern Ireland and 82 per cent in the Southern Water Authority area. During the last three months of the year, rainfall in the Severn-Trent water authority area was near to the mean, but elsewhere was much above average,

giving a good start to the natural replenishment of the 1982-83 winter months.

Hydrographs for a number of index wells are presented in Fig.11 (a-m) for the period 1979-82. The trace of observed water levels upon the hydrographs is discontinued where there is a break between successive measurements of more than eight weeks. Each hydrograph shows monthly maxima, minima and mean levels where the period of record covers ten or more years prior to 1982. For shorter records, only the hydrograph constructed from observed levels is shown. Well hydrographs in the Anglian (New Red Lion and

Washpit Farm) and the Southern (Rockley) water authority areas reflect the low winter rainfall; starting near to the mean levels and falling beneath the means through the summer. By the end of the year, the high rainfalls of the October to December period had caused high infiltration rates, and these hydrographs show the water levels rising well above the mean.

Elsewhere in the country, the well hydrographs show levels close to the means, occasionally falling below the means, but rising to above-average values by the end of the year.

TABLE 4. WINTER AND SUMMER RAINFALL IN THE UNITED KINGDOM 1981-82

Water Authority area	Winter rainfall 1981-82	Summer rainfall 1982	Rainfall Oct - Dec 1982
Anglian	270 mm 90%	303 mm 98%	222 mm 133%
North West	756 mm 121%	489 mm 83%	475 mm 133%
Northumbrian	474 mm 107%	335 mm 77%	294 mm 120%
Severn-Trent	410 mm 106%	376 mm 98%	227 mm 106%
Southern	404 mm 92%	293 mm 82%	385 mm 152%
South West	824 mm 120%	421 mm 83%	533 mm 140%
Thames	363 mm 101%	310 mm 90%	292 mm 144%
Welsh	859 mm 117%	526 mm 88%	561 mm 134%
Wessex	514 mm 109%	356 mm 89%	360 mm 134%
Yorkshire	431 mm 101%	379 mm 93%	275 mm 119%
River Purification Board area			1982
Highland	1229 mm 128%	726 mm 96%	714 mm 130%
North East	592 mm 112%	428 mm 86%	417 mm 138%
Tay	760 mm 114%	509 mm 86%	607 mm 162%
Forth	679 mm 120%	477 mm 87%	468 mm 145%
Clyde	1104 mm 121%	712 mm 95%	737 mm 138%
Tweed	601 mm 120%	407 mm 81%	406 mm 144%
Solway	934 mm 122%	556 mm 104%	714 mm 162%
Northern Ireland	654 mm 114%	424 mm 81%	432 mm 134%

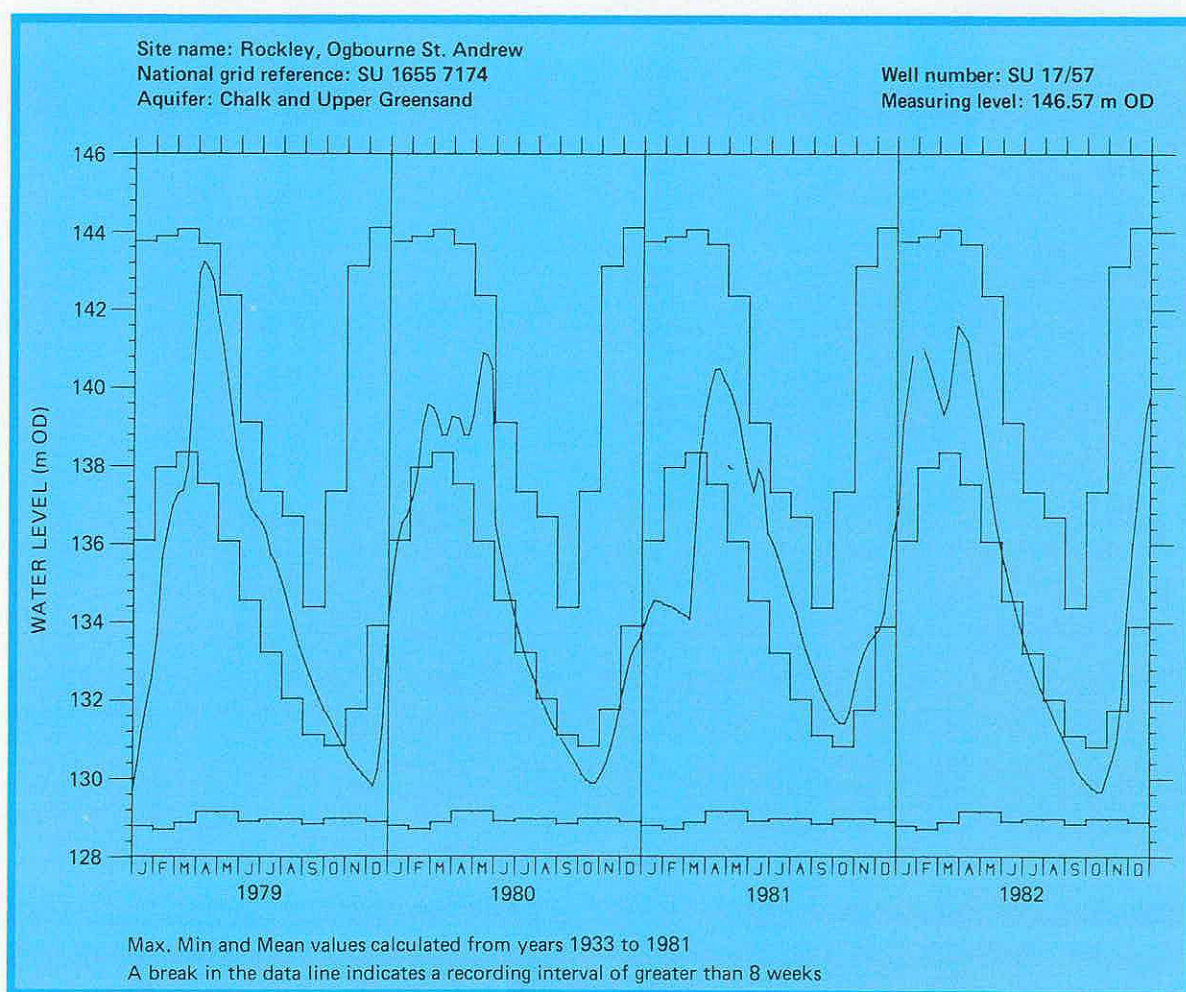
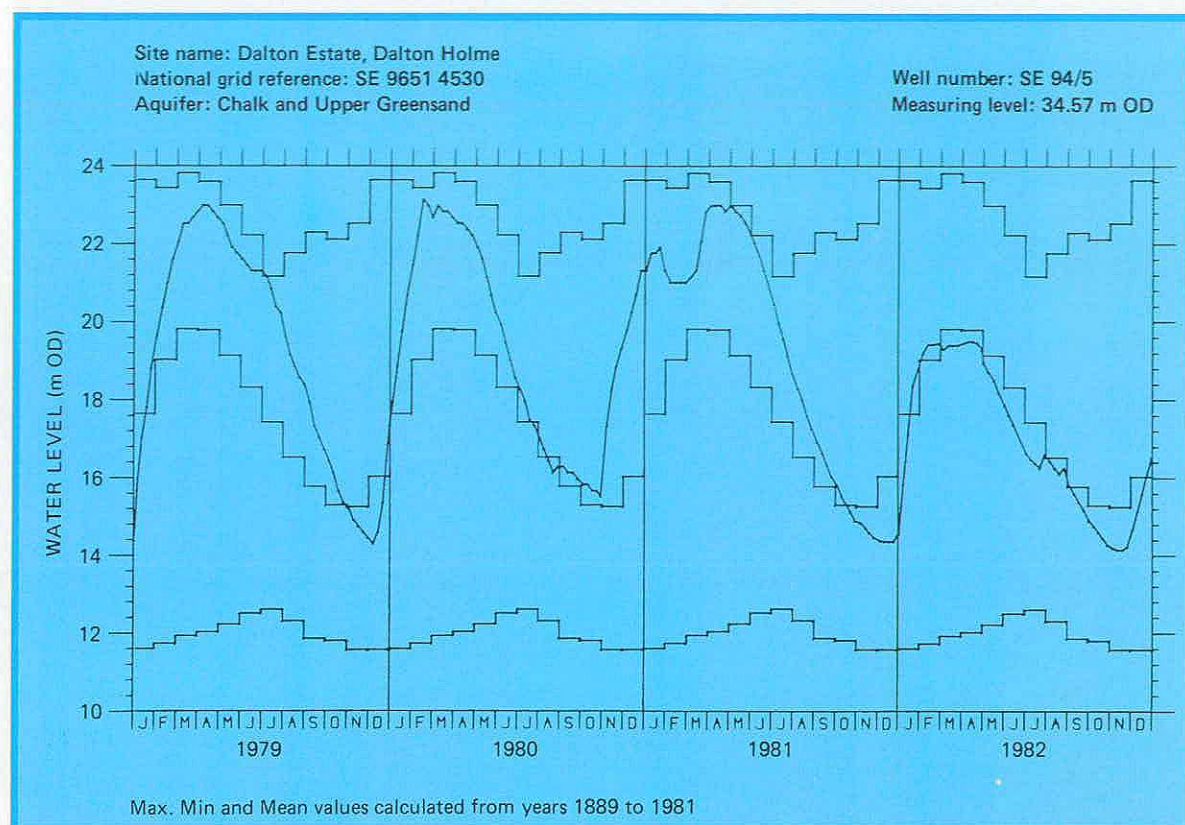


Figure 11. Hydrographs of groundwater level fluctuations 1979–82.

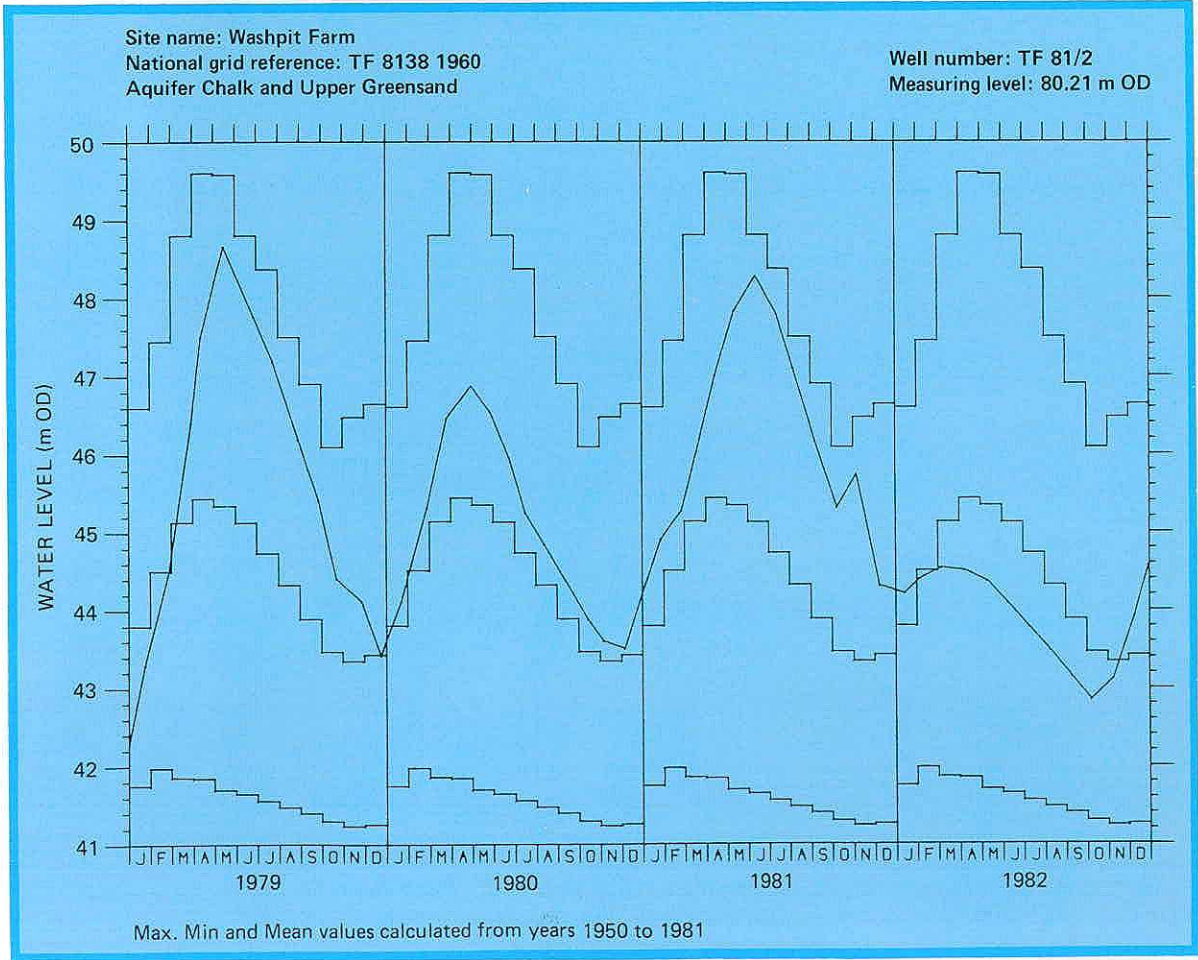
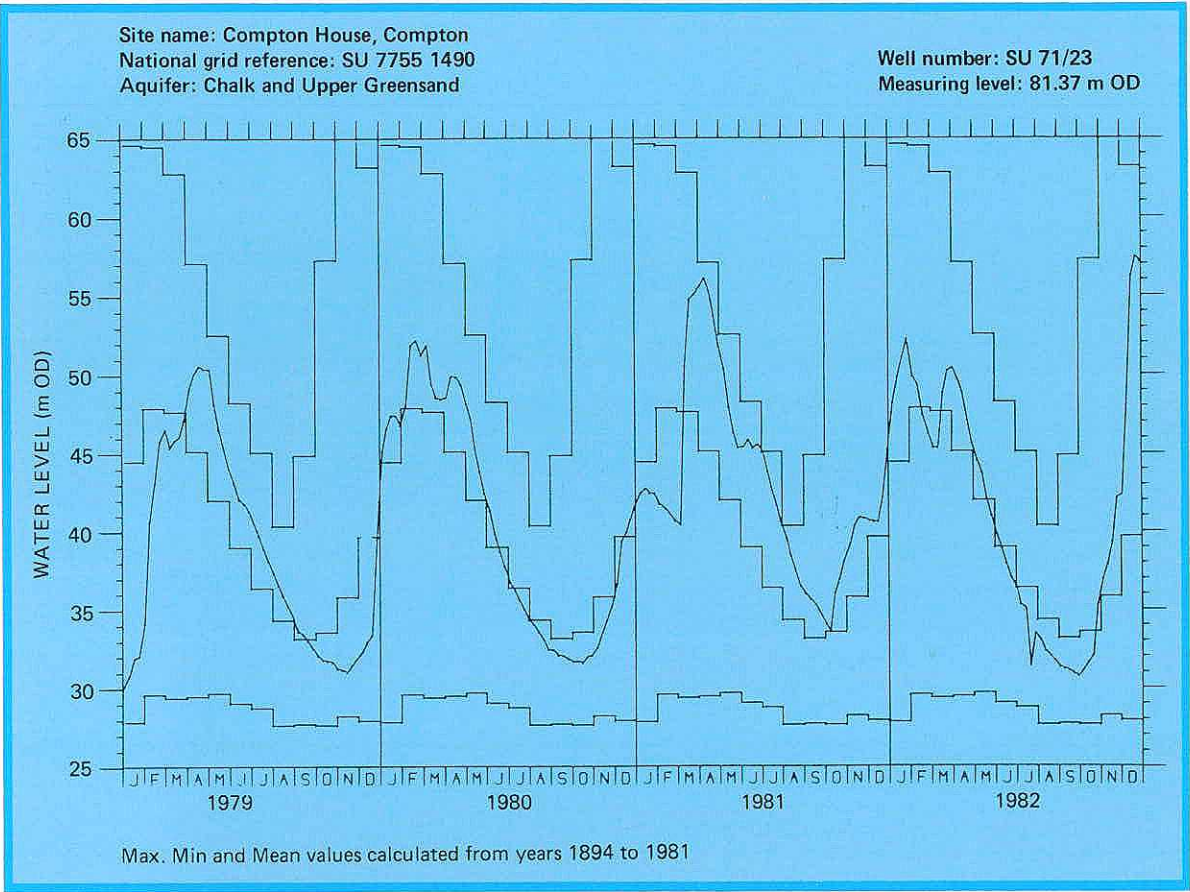


Figure 11—(continued).

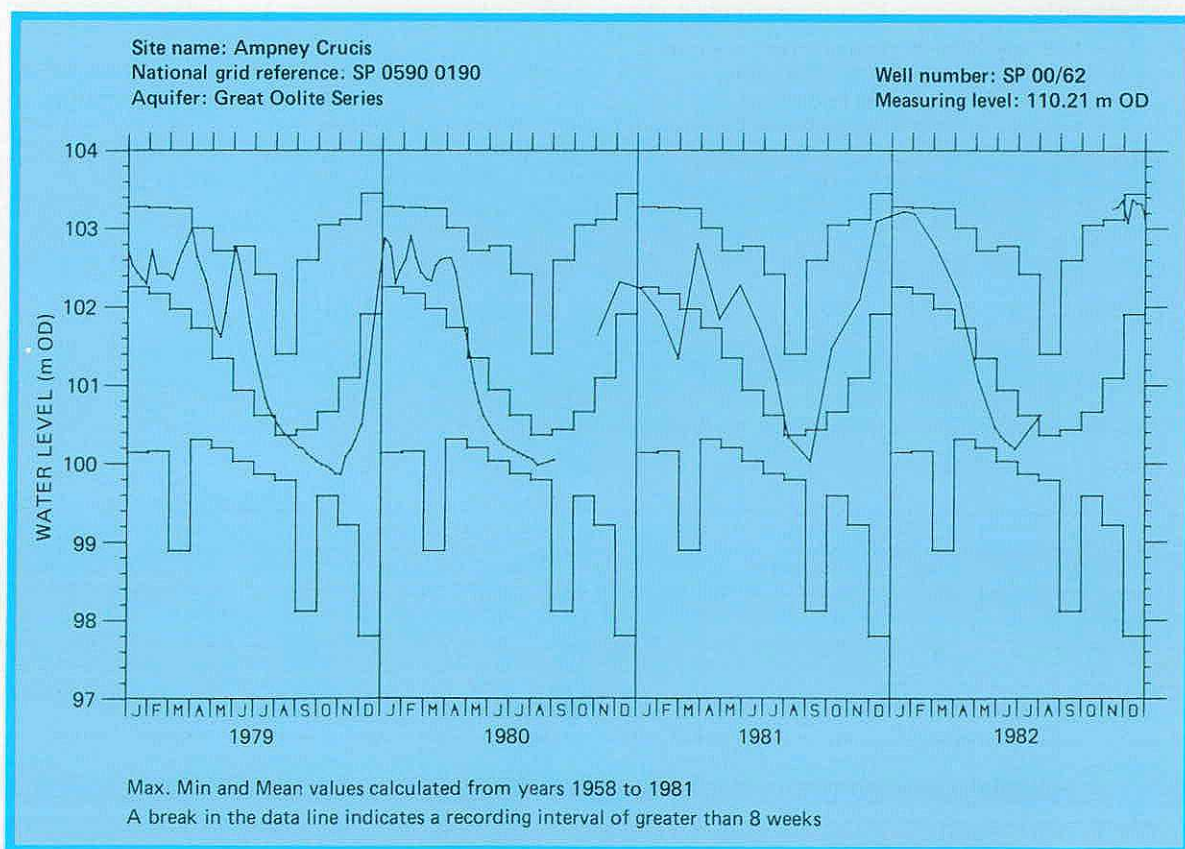
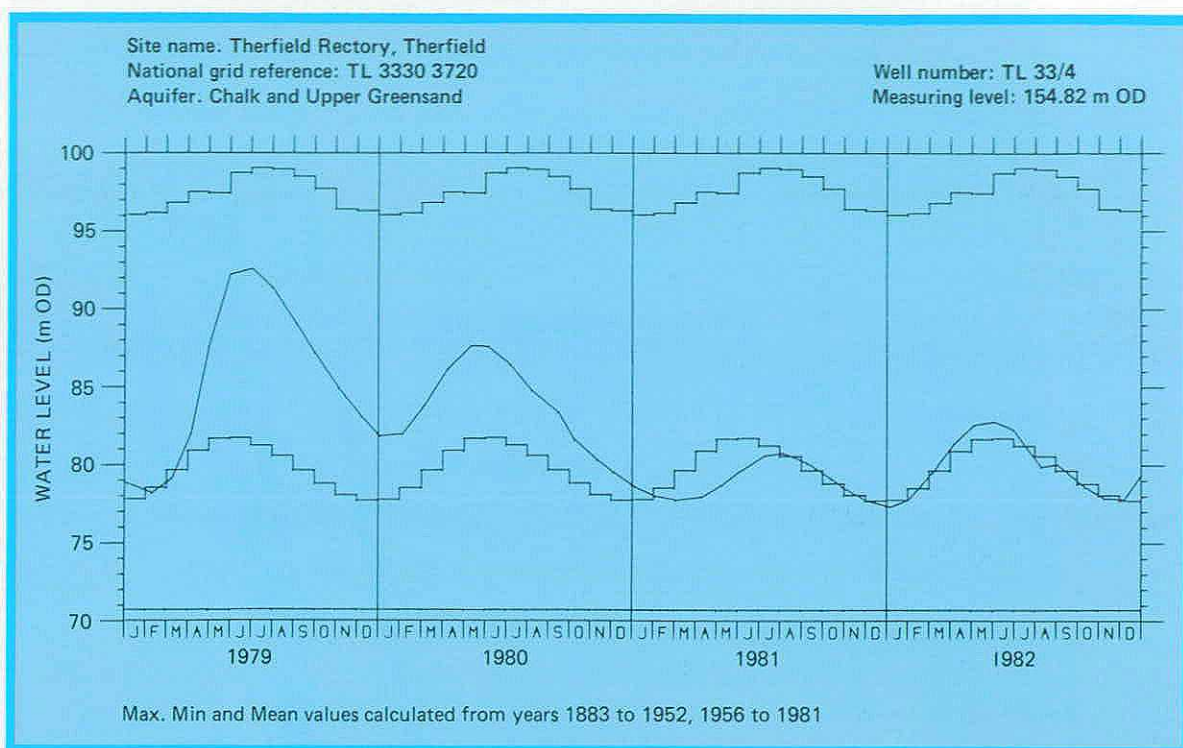


Figure 11.—(continued).

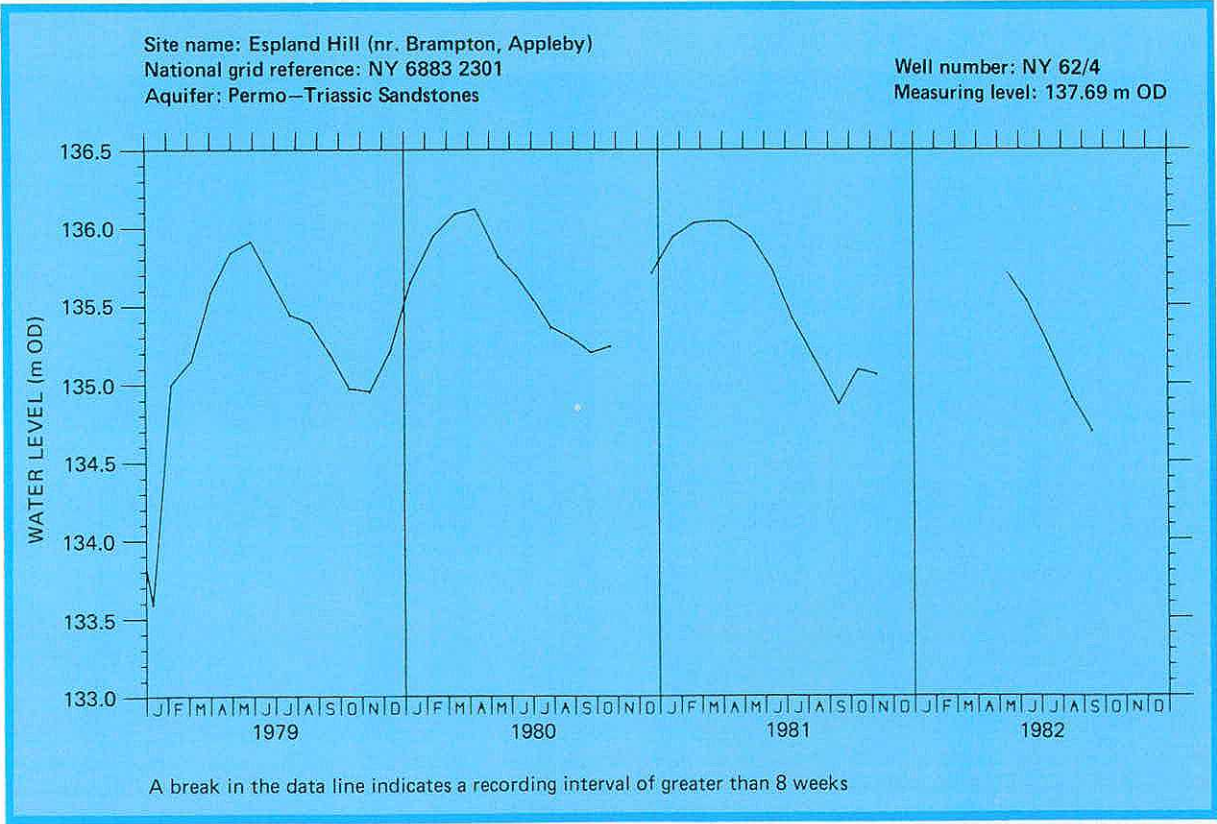
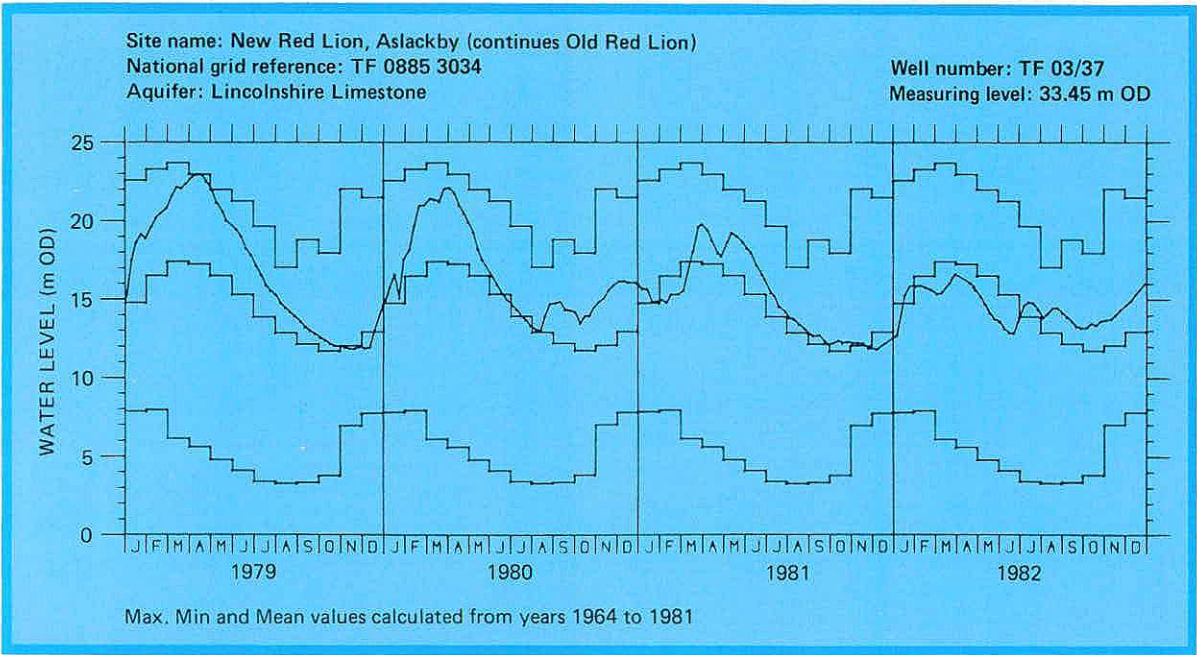


Figure 11—(continued).

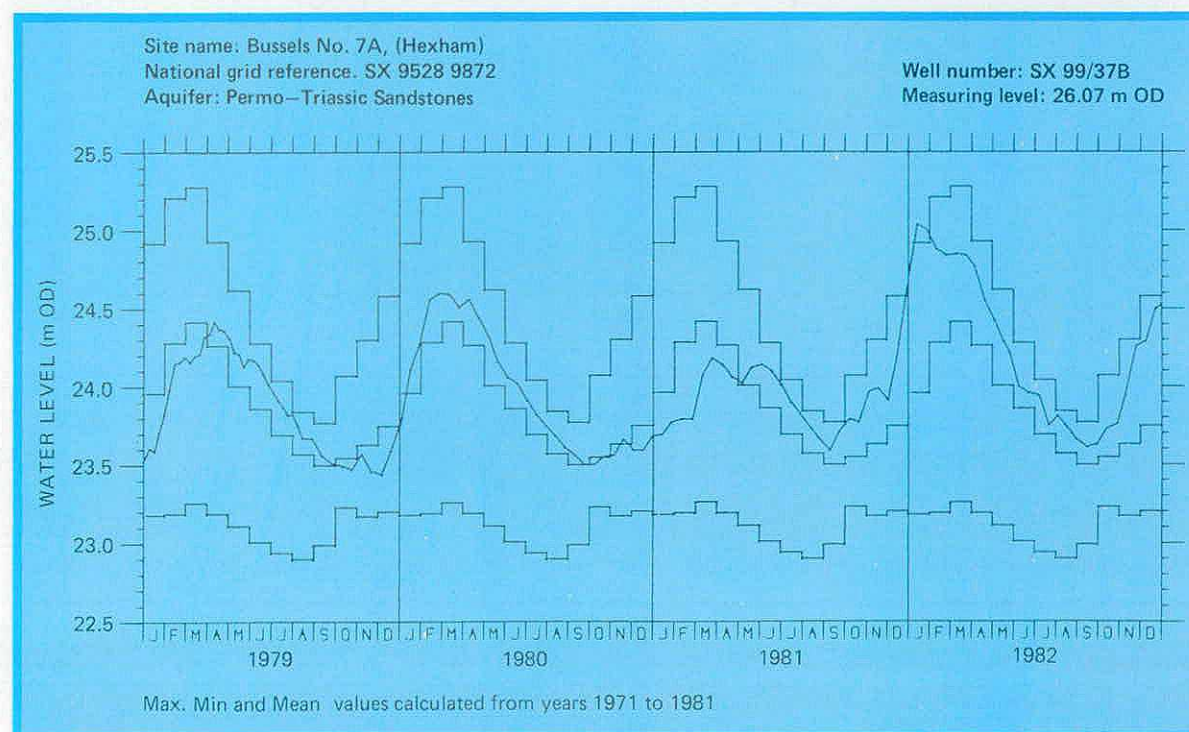
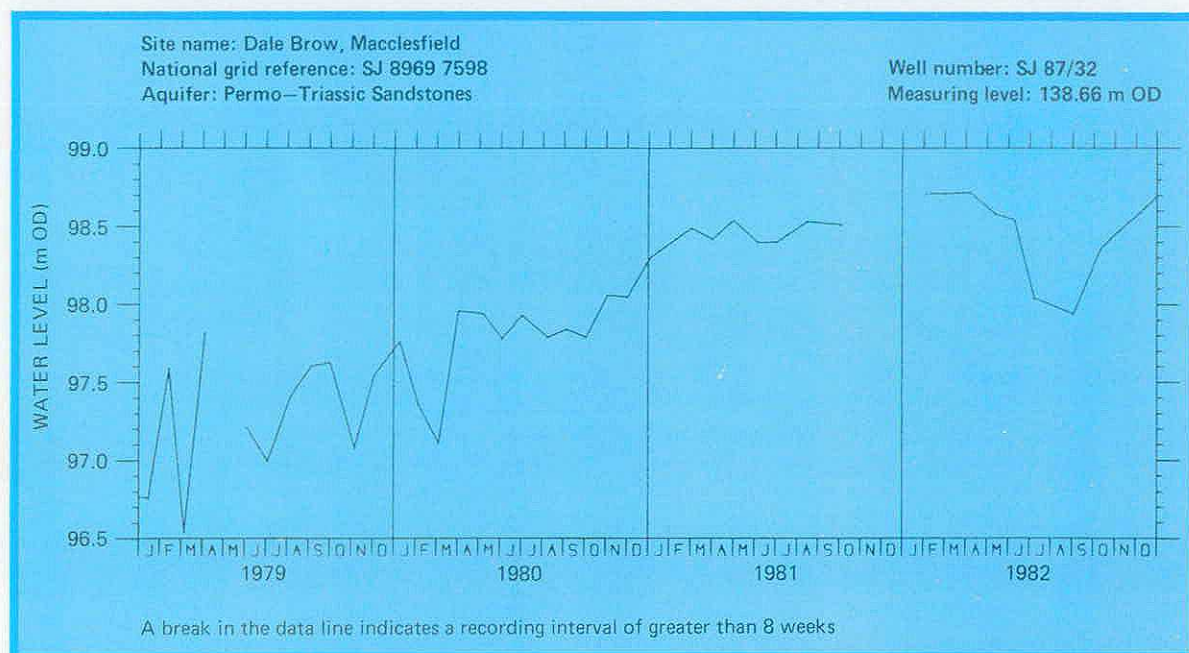
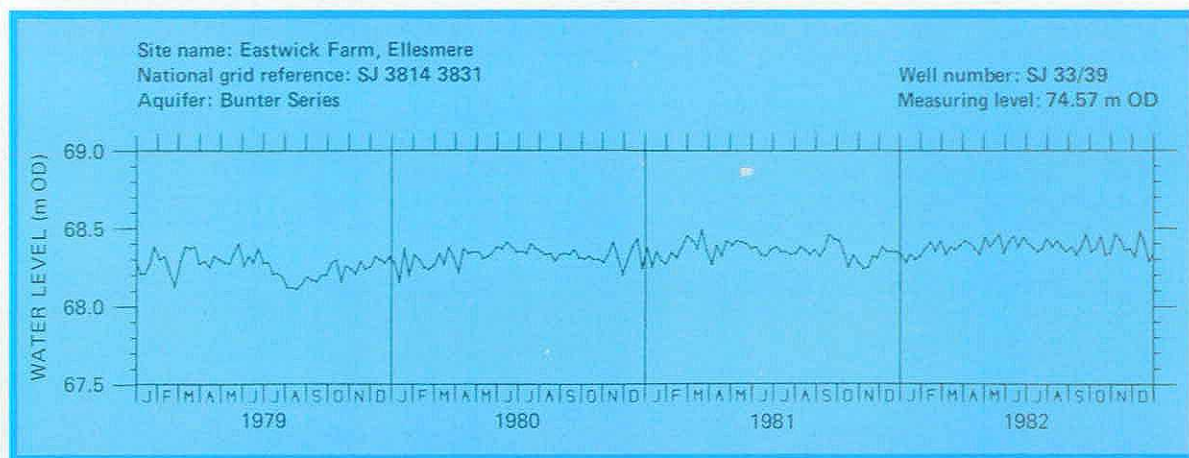


Figure 11.—(continued).

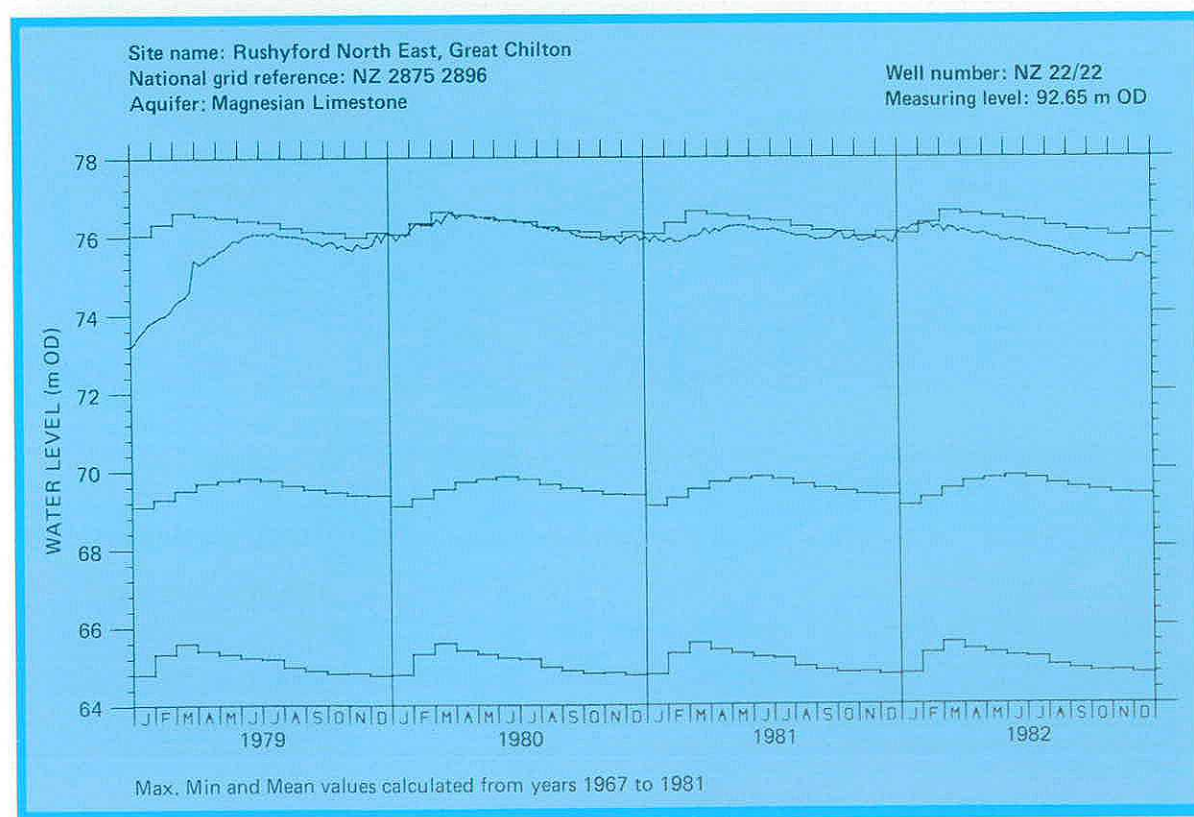
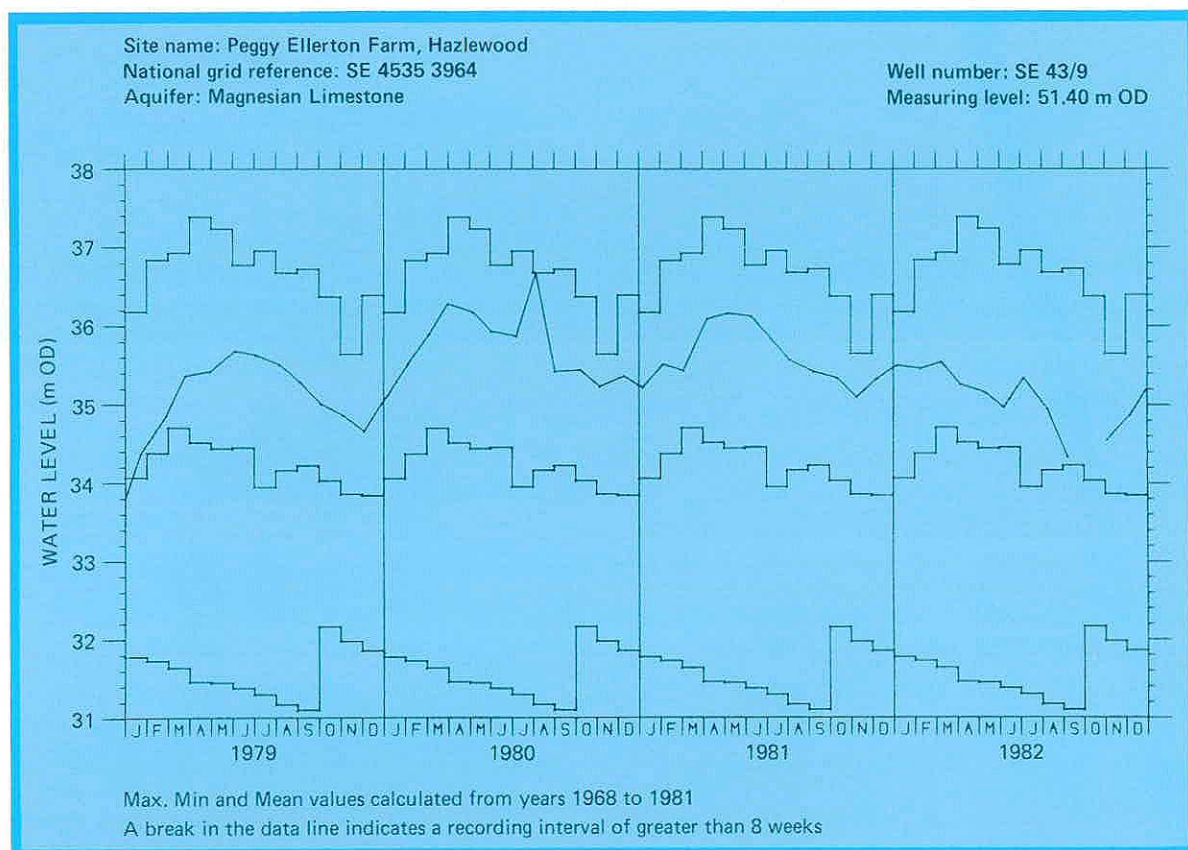


Figure 11—(continued).

THE GROUNDWATER DATA RETRIEVAL SERVICE

A suite of retrieval programs has been written in order to facilitate data usage. At the present time, retrievals using the options described below are available for most of the sites listed in the register of selected groundwater observation wells, although not all the data contained within this archive have been validated.

Five options are available for retrieving data. A description of each option is given below and examples of the computer listings and graphical output are given on pages 160 to 163. Options 1 to 4 give details of the well site, the period of record available, and maximum and minimum recorded levels in addition to the output specific to each option. Data may be retrieved for a specific well or for groups of wells defined by well reference numbers, by area (using National Grid References), by aquifer, by hydrometric area, by water authority, or by any combination of these parameters.

Cost of Service

To cover the computing and handling costs, a moderate charge will be made depending on the

output options selected. Estimates of these charges may be obtained on request; the right to amend or waive charges is reserved.

Requests for retrieval options:

Requests for retrieval options should include: the name and address to which the output should be directed, the sites, or areas, for which data are required together with the period of record of interest (where appropriate) and the title of the required option. Where possible, a daytime telephone number should be given.

Requests should be addressed to:

The British Geological Survey
Hydrogeology Research Group
Maclean Building
Crowmarsh Gifford
WALLINGFORD
OXFORDSHIRE OX10 8BB

Telephone: Wallingford (0491) 38800

LIST OF GROUNDWATER DATA RETRIEVAL OPTIONS

OPTION NUMBER	TITLE	NOTES
1	Table of groundwater levels	All recorded observations of groundwater level in metres above Ordnance Datum, with dates of observation and maximum and minimum levels for each year. Specific years, or ranges of years, may be requested, otherwise the full period of record is given.
	Table of annual maximum and minimum groundwater levels	Annual maximum and minimum groundwater levels in metres above Ordnance Datum with dates of occurrence. Specific years, or ranges of years, may be requested, otherwise the full period of record is given.
	Table of monthly maximum, minimum and mean groundwater levels	Monthly maximum, minimum and mean groundwater levels in metres above Ordnance Datum, together with the number of years contributing values to the calculation of each monthly mean. A specific period of years may be nominated, otherwise the full period of record is given.
	Hydrographs of groundwater levels	Provides a well hydrograph for a number of specified years. Castellated annual plots of monthly maximum, minimum and mean groundwater levels calculated from a nominated period of years are superimposed upon the hydrograph, provided that the nominated period exceeds 10 years. Tabulations

Site details

of the monthly maximum, minimum and mean values are also listed, together with the number of years of record used in the calculations, and the number of observations used for each month.

The output comprises the well reference number of the British Geological Survey, the original (Water Data Unit) station number (where applicable), the hydrometric area, the aquifer name and code, the site name and location, the National Grid Reference, the depth of the well, the datum points (from which measurements are made), the altitude of the ground surface, the period of record and the water authority area in which the well or borehole is located.

Examples of these five options follow.

OPTION 1 TABLE OF GROUNDWATER LEVELS

Station number	TF03/37
Station name	NEW RED LION, ASLACKBY (CONTINUES OLD RED LION)
Grid Reference	TF 0885 3034
Water Authority	AWA
Hydrometric Area	30
Aquifer	Lincolnshire Limestone
Aquifer Code	13
EEC Unit	ANO3
Surface Level (MOD)	33.82
Datum Point (MOD)	33.45
Well Depth (M)	50.00
Max. Expected (MOD)	33.45
Min. Expected (MOD)	5.00
Period of records in Archive:-	1964 to 1985
Maximum GW Level for period of records	23.69
Number of Maxima	1
Date(s):-	14 03 1977
Minimum GW Level for period of records	3.29
Number of Minima	1
Date(s):-	24 08 1976

(Note: The above reference information is also provided with the output from options 2-4)

Station Number	TF03/37
Year of record	1975
Date	Level (MOD)
03 Jan	17.29
31 Jan	16.68
28 Feb	17.85
04 Apr	20.31
24 Apr	20.12
02 May	20.13
30 May	18.58
13 Jun	17.34
11 Jul	15.77

01 Aug	14.44
29 Aug	13.24
26 Sep	12.11
10 Oct	11.57
07 Nov	10.42
21 Nov	9.85
19 Dec	8.98

Maximum GW level for year 20.31
 Number of maxima 1
 Dates 04 Apr
 Minimum GW Level for year 8.98
 Number of minima 1
 Dates 19 Dec

OPTION 2 TABLE OF ANNUAL MAXIMUM AND MINIMUM GROUNDWATER LEVELS

Year	Max/Min	Level (MOD)	Date(s)	No. of occasions
1965	Max	21.50	26 Dec	1
	Min	7.85	24 Jan	1
1966	Max	23.51	06 Mar	1
	Min	14.43	09 Oct-16 Oct	1 Period
1967	Max	19.79	04 Jun	1
	Min	12.69	29 Oct	
1968	Max	22.06	17 Nov	
	Min	14.08	07 Jul	
1969	Max	23.17	30 Mar	
	Min	11.83	16 Nov	
1970	Max	20.21	26 Apr	1
	Min	10.76	15 Nov	1

OPTION 3 TABLE OF MONTHLY MAXIMUM, MINIMUM AND MEAN GROUNDWATER LEVELS

Period maximum, minimum and mean groundwater levels for years 1964 to 1985

	Maximum	Minimum	Mean	No. of years
Jan	22.58	7.85	14.75	21
Feb	23.29	7.97	16.50	21
Mar	23.69	6.14	17.27	21
Apr	22.97	5.61	17.17	22
May	22.00	4.80	16.52	21
Jun	21.28	4.11	15.40	21
Jul	19.69	3.42	14.03	21
Aug	17.08	3.29	12.97	21
Sep	18.84	3.37	12.23	21
Oct	17.98	3.82	11.78	21
Nov	22.06	7.03	12.08	21
Dec	21.51	7.81	13.04	21

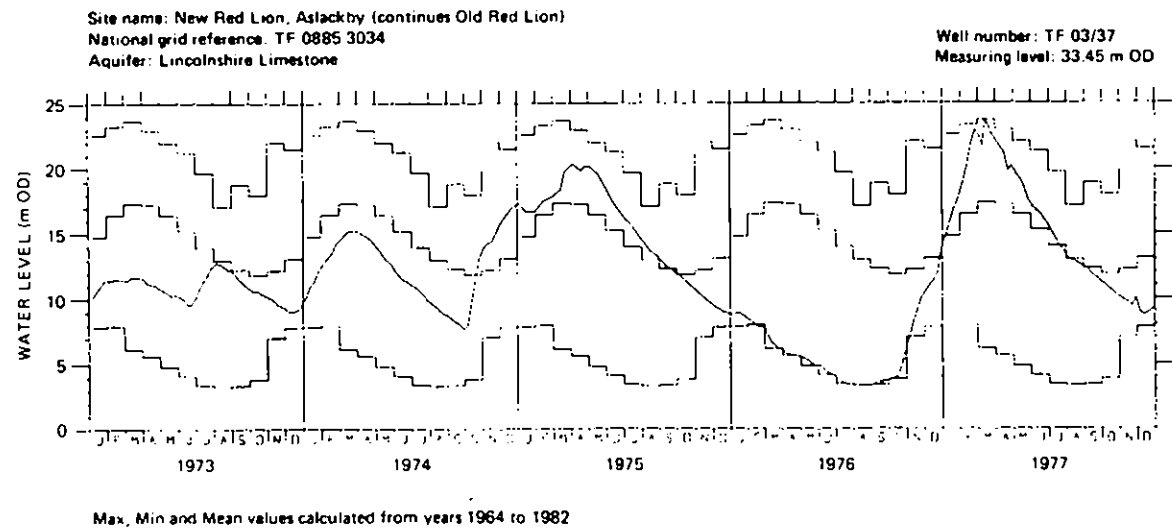
OPTION 4 HYDROGRAPHS OF GROUNDWATER LEVELS

Hydrograph of monthly maximums, minimums and means calculated from years 1964 to 1982

Therefore maximum number of years from which monthly maxs, mins and means may be calculated is 19

	Maximum	Minimum	Mean	No. of Years contributing values to mean calculations
Jan	22.58	7.85	14.77	18
Feb	23.29	7.97	16.47	18
Mar	23.69	6.14	17.34	18
Apr	22.97	5.61	17.23	19
May	22.00	4.80	16.42	19
Jun	21.28	4.11	15.23	19
Jul	19.69	3.42	13.97	19
Aug	17.08	3.29	12.98	19
Sep	18.84	3.37	12.28	19
Oct	17.98	3.82	11.85	19
Nov	22.06	7.03	12.20	19
Dec	21.51	7.81	13.09	19

Hydrograph(s) plotted for year ranges:- 1973 to 1977



OPTION 5 SITE DETAILS

BGS NUMBER	COMPUTER NUMBER	HA	AQ	NAME—LOCATION REC. PERIOD—WA—AQUIFER	GRID REF.	DEPTH (M)	DATUM POINT	SURFACE LEVEL
NZ22/22	25624	25	17	RUSHYFORD NORTH EAST, GREAT CHILTON 1957-1985 NWA MAGNESIAN LIMESTONE	NZ 2875 2896	62.50	92.65	92.53
SE94/5	26352	26	6	DALTON ESTATE, DALTON HOLME 1889-1985 YWA CHALK AND UPPER GREENSAND	SE 9651 4530	28.50	34.57	33.50
SE43/9	27360	27	17	PEGGY ELLERTON FARM, HAZLEWOOD 1968-1985 YWA MAGNESIAN LIMESTONE	SE 4535 3964	55.42	51.40	51.40
TF03/37	30229	30	13	NEW RED LION, ASLACKBY (CONTINUES OLD RED LION) 1964-1985 AWA LINCOLNSHIRE LIMESTONE	TF 0885 3034	50.00	33.45	33.82
TF81/2	33343	33	6	WASHPIT FARM 1950-1985 AWA CHALK AND UPPER GREENSAND	TF 8138 1960	40.40	80.21	80.69
TL33/4	38511	38	6	THERFIELD RECTORY, THERFIELD 1883-1984 TWA CHALK AND UPPER GREENSAND	TL 3330 3720	84.10	154.82	154.82
SU17/57	39350	39	6	ROCKLEY, OGBOURNE ST. ANDREW 1933-1985 TWA CHALK AND UPPER GREENSAND	SU 1655 7174	17.60	146.57	146.39
SU71/23	41426	41	6	COMPTON HOUSE, COMPTON 1894-1985 SWA CHALK AND UPPER GREENSAND	SU 7755 1490	53.80	81.37	81.37
SJ87/32	68476	68	16	DALE BROW, MACCLESFIELD 1973-1984 NWVA PERMO-TRIASSIC, SANDSTONES	SJ 8969 7598	152.40	138.66	138.36

DIRECTORY OF MEASURING AUTHORITIES

Water Authorities	Address	Code
Anglian Water Authority	Amebury Road, Huntingdon PE18 6NZ	AWA
Northumbrian Water Authority	Northumbria House, Regent Centre, Gosforth, Newcastle- upon-Tyne, NE3 3PX	NWA
North West Water Authority	Dawson House, Liverpool Road, Great Sankey, Warrington, WA5 3LW	NWWA
Severn Trent Water Authority	Abelson House, 2297 Coventry Road, Sheldon, Birmingham, B26 3PU	STWA
Southern Water Authority	Guildbourne House, Chatsworth Road, Worthing BN11 1LD	SWA
South West Water Authority	Peninsular House, Rydon Lane, Exeter EX2 7HR	SWWA
Thames Water Authority	New River Head, Rosebery Avenue, London EC1R 4TP	TWA
Welsh Water Authority	Cambrian Way, Brecon, Powys LD3 7HP	WELS (WELSH)
Wessex Water Authority	Wessex House, Passage Street, Bristol BS2 0JQ	WWA
Yorkshire Water Authority	West Riding House, 67 Albion Street, Leeds LS1 5AA	YWA
River Purification Boards		
Clyde River Purification Board	Rivers House, Murray Road, East Kilbride, Glasgow G75 0LA	CRPB
Forth River Purification Board	Colinton Dell House, West Mill Road Colinton, Edinburgh, EH13 0PH	FRPB
Highland River Purification Board	Strathpeffer Road Dingwall IV15 9QY	HRPB
North East River Purification Board	Woodside House, Persley, Aberdeen AB2 2UQ	NERPB
Solway River Purification Board	Rivers House, Irongray Road Dumfries DG2 0JE	SRPB
Tay River Purification Board	3, South Street Perth PH2 8NJ	TRPB
Tweed River Purification Board	Burnbrae, Mossilee Road, Galashiels TD1 1NF	TWRPB
Other measuring authorities		
Borders Regional Council	West Grove, Waverley Road, Melrose TO6 9SJ	BRWO
Corby and District Water Company	Stanion Lane, Corby NN18 8ES	CDWC

Department of the Environment (Northern Ireland)	Stormont, Belfast BT4 3SS	DOE (NI)
Dumfries and Galloway Regional Council (Water Department)	70 Terregles Street Dumfries DG2 9BB	DGRW
Essex Water Company	342 South Street Romford RM1 2AL	EWC
Grampian Regional Council (Water Services Department)	Woodhill House, Ashgrove Road West, Aberdeen AB9 2LU	GRWD
Greater London Council	Public Heath Engineering, Drury House, 32 Vauxhall Bridge Road, London SW1V 2SA	GLC
Highland Regional Council (Water Department)	Regional Buildings Glenurquhart Road Inverness IV3 5NX	HRCW
Institute of Hydrology	Maclean Building, Crowmarsh Gifford, Wallingford, OX10 8BB	IH
Lothian Regional Council (Water Supply Services Department)	6 Cockburn Street, Edinburgh	LRWD
Newcastle and Gateshead Water Company	PO Box 10, Allendale Road, Newcastle-upon-Tyne NE6 2SW	NGWC
North of Scotland Hydro- Electric Board	16 Rothesay Terrace, Edinburgh EH3 7SE	NSHE
Strathclyde Regional Council (Water Department)	419 Balmore Road, Glasgow G22 6NU	SRCW
Tayside Regional Council (Water Services Department)	Bullion House, Invergowrie, Dundee DD2 5BB	TRWS

PUBLICATIONS

Title	Published	Price (inclusive of second class postage within UK)	
		<i>Loose Leaf</i>	<i>Bound</i>
1. Yearbook 1981.	1985	£10	£12
2. Yearbook 1982.	1985	£10	£12
3. The 1984 Drought.	1985		£12

The Yearbooks are available as bound volumes or as sets of pre-punched sheets for insertion in a ring binder designed to hold five yearbooks and the five-yearly catalogue with summary statistics. The ring binder may be purchased for £28 to include the 1981 and 1982 yearbooks. Organisations and individuals purchasing the ring binder will be entitled to receive free updates of the data sheets for individual Yearbooks when a significant revision to

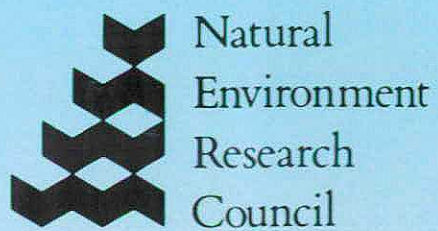
the published data is made. The revised data sheets will normally be issued on an annual basis.

All the Hydrological data: UK publications and the ring binder may be obtained from:-

Institute of Hydrology
Maclean Building
Crowmarsh Gifford
WALLINGFORD
OXFORDSHIRE OX10 8BB

Telephone: Wallingford (0491) 38800

Enquiries or comments regarding the series, or individual publications, are welcomed and should be directed to the Surface Water Archive at the above address.



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